

**THE CHICAGO ACADEMY OF SCIENCES
QUARTERLY BOARD MEETING
PEGGY NOTEBAERT NATURE MUSEUM
THIRD FLOOR CONFERENCE ROOM
JANUARY 26, 1999
NOON**

1. Call to order and luncheon - Mr. Voss (Noon)
2. Executive session - Mr. Voss (12:15)
3. Comments of the Chair - Mr. Voss (10 min)
 - Resignations
 - Appointments
4. Report of the Secretary - Mr. Plotnick (5 min)
 - ACTION ITEM: Be it resolved that the Board of Trustees approves the minutes of the meeting of October 27, 1998, as circulated**
5. Management Report - Mr. Crampton, Mr. Silvester (15 min)
 - Accreditation - Mr. Crampton (5 min)
 - Operating Plans - Mr. Silvester (10 min)
6. Report of the Nominating Committee - Mr. Pick (10 min)
 - ACTION ITEM: Be it resolved that the Board of Trustees appoints Paula Trienens, Robert Cumming, and Alejandro Silva as Trustees until the next Annual Meeting of the Board.**
 - ACTION ITEM: Be it resolved that the Board adopts the 'Stewardship Guidelines for Trustees' as proposed.**
7. Report of the Finance Committee - Mr. Benson (10 min)
8. Report of the Facilities and Administration Committee - Mr. Pick (15 min)
9. Report of the Education and Exhibits Committee - Mr. Crampton (15 min)

The Chicago Academy of Sciences
Quarterly Board Meeting
January 26, 1999, p. 2

10. Report of the Development and Marketing Committee - Mr. Healy (20 min)

- a. Campaign Committee - Mrs. Notebaert
- b. Butterfly Ball - Mrs. Istock
- c. Annual fund - Mr. Healy
- d. Admissions - Mr. Healy
- e. Membership - Ms. Reese
- f. Kennicott Society - Mr. Crampton
- g. Calendar of pre-opening and opening events- Ms. Reese

ACTION ITEM: Be it resolved that the Board of Trustees appoints a Launch Taskforce comprised of Tom Cox, Peggy Notebaert, Hall Healy, and Harvey Plotnick with staff of Bryn Reese, Lew Crampton, Colin Silvester, and Sheila McCaskill and authorizes the Taskforce to provide interim guidance for the development of activities and budget for the program of Opening Events.

11. Report of the ByLaws and Legal Committee - Mr. Healy (10 min)

Information Item: Sample ethics statements which will be refined for Board action in April.

12. Report of the Research Committee - Mr. Crampton (10 min)

Information Item: Notification that collections policies are being reviewed and revised for Board action in April.

13. Other business

a. Upcoming events

Feb. 27 - Tiffany Butterfly Ball Kickoff Event,
Feb. - June - Academy of Sciences Lecture series
March 13 - 21 - Chicago Flower and Garden Show - Navy Pier
April 30 - Butterfly Ball
June 22 - Architectural Foundation/CAS exhibit opening

b. Other

13. Executive session

14. Adjournment

MINUTES OF THE MEETING OF THE BOARD OF TRUSTEES OF THE CHICAGO
ACADEMY OF SCIENCES, OCTOBER 28, 1998 AT 4:00PM AT THE UNION LEAGUE
CLUB, 65 WEST JACKSON BLVD., CHICAGO, ILLINOIS.

Trustees present: David Voss, Harvey Plotnick, Deborah Reguera, Laurie Ashcraft, Kell Benson, Thomas Cox, Lew Crampton, Bill Elliott, Doug Hanslip, Daggett Harvey, Hall Healy, Ben Lenhardt, Albert Pick, Roger Plummer, Richard Williams.

Trustees absent: Peggy Notebaert, Peggy Fossett, Judy Istock, Ben Johnson, Rick Maier, Earl Neal, Thelma Smith, Lowell Stahl.

Staff present: Kevin Coffee, Bill Haase, Phil Parfitt, Bryn Reese, Colin Silvester, Bettie Leslie

David Voss presided as Chair.

Mr. Voss called the meeting to order and stated there would be an executive session following the regular business meeting and preceding the Annual Trustee Dinner in the Heritage Room.

He noted that Dr. Heltne was absent due to the illness of his parents in Iowa.

Report of the Secretary - Harvey Plotnick

Richard Williams requested that it be clearly stated in the minutes of June 30, 1998 that "the Board requested that Messrs. Heltne and Silvester review the adequacy of the various sources of cash available to the Academy to complete the Nature Museum project and report back to the Board with their conclusions. Mr. Williams noted that such a report had been received from Messrs. Heltne and Silvester which confirmed to the Board that sufficient funds would be available to complete the project."

With this amendment and upon motion made, seconded, and passed, it was:

RESOLVED: that the minutes of the 141 Annual Meeting, June 30, 1998, of the Board of Trustees are approved as amended.

The Chair requested the Trustees to consider and discuss the next two agenda items dealing with increased cost both in building construction and exhibit fabrication before voting on the action items of each.

Mr. Voss reported that he had received a memo from Lee Skolnick expressing concern that the museum would open without the critical mass of exhibits to ensure its success. Mr. Skolnick is particularly concerned about the omission of the external exhibits.

Minutes of the meeting of the Board of Trustees of the Chicago Academy of Sciences 10-28-98.

Report of the Education and Exhibits Committee - Lew Crampton

Mr. Crampton referred the Trustees to the written reports of the Education Department and the Exhibits Department previously distributed. He stated that the Academy is only one year away from opening and that good progress is being made. The contract has been let to fabricate and install five exhibits: Butterfly Haven, Environmental Central, Wilderness Walk, and Water Lab. At this point the fabrication of the Children's Gallery is not included. The Committee determined at the October 22, 1998 meeting that the Children's Gallery is an important component in both attracting the audience of parents with small children and in furnishing a full range of exhibit experience. The Committee is, therefore, asking the Board to raise an additional sum of \$375,000 to fund the Children's Gallery and some external exhibitry and an additional \$100,000 to pay for staff time required to complete all of the exhibits due to the four-month extension of the opening date. (In the action item the sum is rounded to \$500,000.)

Mr. Voss questioned the figure of \$375,000 and was told by Mr. Silvester that that was the estimated amount that would be paid to Design Craftsmen Inc. The remainder of the money for the exhibit is included in the item listed on the Exhibit Budget Status Report, October 1998, as "Internally managed." The Exhibits Budget Status Report is attached to the permanent minutes.

Mr. Crampton stated that the options were to raise the additional money or defer the Children's Gallery until later. The Education and Exhibits Committee's opinion is that, from the standpoint of critical mass, this is an important exhibit to include, especially in terms of marketing to and developing a large audience of mothers and children. This is the audience that will most likely be repeat visitors to the Museum.

Report of the Facilities and Administrative Committee: Albert Pick

Mr. Pick reported that the current situation the Academy is facing in terms of increased building cost is the result of not having the knowledge to be able to structure a completely detailed specification for the contractor when the building contract was let. This is because at that time we did not have the full details of exhibit designs. The building contract provides for water, power lines, telephones, etc., to be brought to a location in the building but not specifically to encompass the needs of a specific exhibit. Mr. Pick noted there should have been, but wasn't, a line item in the budget to allow for that additional expense. As a result, modifications will have to be made and monies spent to furnish the exhibits with the necessary utilities they require. The Committee estimates an additional \$850,000 is required to complete the build-out, although the exact figure has not yet been determined. The contract is presently out for bid to four potential suppliers.

Minutes of the meeting of the Board of Trustees of the Chicago Academy of Sciences 10-28-98.

Mr. Voss reiterated that the Board is now being asked to consider an increase of \$500,000 to complete the exhibits that were approved in September, 1997 and approximately \$850,000 additional to connect the building with the exhibits and make them function properly. He asked if this sum included the exterior exhibitry and was told by Mr. Silvester that it did.

The Chair then asked for discussion.

Mr. Plotnick expressed extreme dismay at the cost increases and that he and other Trustees had learned of these problems only two days ago at the Development and Marketing Committee meeting. He called for an investigation to determine where the fault lay for the cost increases and to ascertain if recompense could be sought.

Mr. Lenhardt noted that compared to the total budget these increases were relatively small but expressed support of Mr. Plotnick's proposal of an ad hoc committee authorized to hire auditors and counsel to investigate the matter. Mr. Williams also supported the proposal. Mr. Cox suggested a budget limitation be set for the inquiry.

The Board settled on a maximum amount of \$35,000 for the investigation.

Upon motion duly made, seconded, and passed unanimously it was:

RESOLVED: that an ad hoc committee, consisting of Harvey Plotnick, Ben Lenhardt, and Richard Williams be appointed and granted a budget up to \$35,000 and this committee be charged with investigating the project cost increases with the objective of assigning responsibility and receiving compensation if possible.

The discussion then returned to the Education and Exhibits Committee report and the action item. Mr. Crampton asked if the delay in letting the contract had had any effect on the price and Mr. Coffee responded that it had because only a few companies across the country do this kind of work and they are all very busy right now. He stated he and Mr. Silvester had engaged in long face-to-face negotiations with DCI and felt they had achieved the best price they could. The plants in Wilderness Walk, in particular, require tedious hand painting by specialized artisans.

Mr. Crampton reiterated his belief that the Children's Gallery is of primary importance in attracting the Museum's target audience of families.

Minutes of the meeting of the Board of Trustees of the Chicago Academy of Sciences 10-28-98.

The Chair then called for a vote on the two pending action items.

Upon motion duly made, seconded, and passed by the majority of attendees it was:

RESOLVED: that the Board of Trustees approves the increase of the Project Cost for exhibits from \$8.0 to \$8.5 million.

Mr. Lenhardt and Mr. Harvey voted no.

Upon motion duly made, seconded, and passed unanimously it was:

RESOLVED: that the Board of Trustees approves the increase of the Project Cost for Building from \$14.3 million to \$15.2 million.

The Chair requested the distribution of the Monthly Management Report prepared by Colin Silvester and Paul Heltne dated September 30, 1998 and ordered a copy to be attached to the permanent minutes. This report will be mailed to Trustees each month in the future.

Development and Marketing Committee - Tom Cox

Mr. Cox referred the Trustees to the quarterly report which had been mailed and to the materials included in their packets. Highlights include:

More than 90% of Trustees have complied with the second part of the C. Paul Johnson Family Charitable Foundation challenge which requires 100% participation by the Board in order to receive an additional \$150,000 for the campaign. The Academy needs to have signed documents to evidence 100% participation of a new or increased pledge of at least \$1,000 made after October 1, 1997 and before December 31, 1998.

The Gala Committee, co-chaired by Judy Istock and Cindy Lenhardt, has a membership of 43. Trustees are reminded to mark their calendars so all are in attendance at the black tie, inaugural Butterfly Ball on April 30, 1999. Ticket price is \$500 per person or \$5000 per table.

Minutes of the meeting of the Board of Trustees of the Chicago Academy of Sciences 10-28-98.

The annual fund campaign has a goal of \$602,000 for fiscal year 1999. Contributions as of October 9, 1998 total \$161,676 with major gifts from Polk Brothers Foundation, \$100,000; MacArthur Foundation \$30,000, Kemper Lesnik Communications \$5,000, Northern Trust Corp., \$3,500 and 360 Communications, \$3,000.

The Kresge Foundation has granted a \$1,500,000 challenge grant pledge on the condition that an additional \$7.0 million is raised by March 1, 2000. The total amount to be raised under the Kresge definition of project costs is \$31,250,000, an increase of \$1,250,000 over the previous goal of \$30,000,000. The \$1,500,000 would be paid to the Academy by the end of March 2000 if the challenge is met completely by March 1, 2000.

Mr. Voss stated that the Kresge Foundation required the inclusion of the finance charges on the Academy long-term bonds. Mr. Plotnick noted there might have been a way to negotiate around this extra amount to be raised if the Trustees had been advised earlier.

Ms. Reese stated that to date the total amount of the Capital Campaign including the Kresge grant and the Chicago Park District commitment is \$24.4 million.

Mr. Cox stated that he felt the savings gained from the reduction of fees to our consultants, Kemper Lesnik and the Alford Group, should be allocated to hiring addition staff for the Development and Marketing Department to strengthen the Department and pick up the slack from consultant efforts.

After further discussion and upon motion made, seconded, and passed it was:

RESOLVED: that the Board of Trustees approves the acceptance of the Kresge Challenge and approves an increase in the goal for the Campaign for the 21st Century from \$30,000,000 to \$31,250,000.

Ms Reese referred the Trustees to the document in their packet entitled Marketing Strategies which lists activities being developed from now through the first anniversary celebration in October, 2000. Mr. Lenhardt requested assurance that the building will be ready for the events - in particular the Butterfly Ball on April 30, 1998. Mr. Silvester stated he has made the completion of the Butterfly Haven a priority in every conversation with contractors and builders.

Finance Committee - Mr. Cox

In the interest of time, Mr. Cox referred the Trustees to the minutes of the Finance Committee meeting dated October 22, 1998 and the Report and Comments on Financial Statements, First Quarter ended September 30, 1998. A copy of the reports were ordered attached to the permanent minutes.

Minutes of the meeting of the Board of Trustees of the Chicago Academy of Sciences 10-28-98.

Research and Symposia - Laurie Ashcraft

ICASL is planning a Spring Lecture Series. Speakers, subjects, dates, and venue will be announced soon.

By-Laws and Legal Committee - Hall Healy

No report

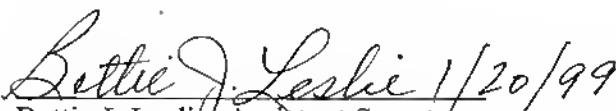
Nominating Committee - Daggett Harvey

Mr. Harvey reported the resignation of Michael Christ, Peter Walker and Robert Wittebort. All have business pressures that prevent their participation in Academy activities at this time. The Chair thanked all three former Trustees for their contributions to the Academy.

Mr. Harvey appealed to the Trustees to submit names of candidates to the Board. He stated the Nominating Committee will be meeting soon after the Trustee Retreat.

The Chair reminded the Trustees of the planned one-day Retreat scheduled for November 19, 1998 from 9:00am to 9:00pm at the Union League Club. Mr. Robert Smith will be the facilitator. The objective is to develop a business plan and road map which will be monitored by the Trustees who will hold staff responsible for implementation.

The meeting then adjourned to Executive Session to be followed by the Annual Trustee Dinner.


Bettie J. Leslie, Assistant Secretary

THE CHICAGO ACADEMY OF SCIENCES

MINUTES OF JANUARY 19, 1999 FINANCE COMMITTEE MEETING

Kell Benson, Acting Chair, convened the meeting at 8:00 A.M. David Voss was also in attendance, as were Bill Haase, Colin Silvester and Paul Heltne

1. Review of 1998 and 1997 audits

Bill DeMent, Deloitte & Touche partner, met with the Committee and presented a written communication that summarized the audits for 1998 and 1997. He reported that the reports were unqualified, no adjustments proposed, no disagreements with Academy management and no exceptions reported in the separate federal audit reports.

He told the Committee that the Y2K problem is one that his firm is alerting all clients about. He reviewed the fact that Academy systems appear to be free of date based data bases. He suggested that we do explore potential property tax collection issues with County government and that we check the clocks on our PC's for possible shutdown effects.

There was an executive session with Messrs. Benson and Voss.

2. Review of December financial statements

Bill Haase distributed the six month statements and these were reviewed. Operations and startup costs are all well within plan; the Campaign revenues are behind plan. There was a discussion of the expected impact of new 1998 indirect cost rates (32% v. 39%). Bill estimated that this might affect current operations by up to \$30,000, exclusive of any possible retroactive adjustments for 1996 and 1997 which are still under discussion.

3. Review of capital project

Colin reported that the building costs and schedule are on plan and that the focus now shifts to the exhibits fabrication. Open cost issues relate to the carpeting plan estimated at (\$60,000) and restaurant MEP work estimated at (\$150,000).

Colin also discussed the summary of the Project's costs and revenues. Kell suggested that an even more condensed simple summary be given to the board.

David Voss asked about the status of the \$2,700,000 funding from the CPD; Colin and Paul reported that \$600,000 - \$800,000 of "timing tradeoffs" are available this quarter from the Art Institute and DuSable and that the amount could be much higher, depending on the spending status of the Shedd.

4. Admissions pricing policy

Colin presented this information, and it was discussed extensively

5. Countdown 2000 planning process

Colin provided an overview, pointing out that the financial data will be completed later.

6. Review of investments

The portfolio's performance was noted - it is now at an all-time high. (\$2,544,000 at December 31, 1998)

The meeting was adjourned at 10:15 A.M.

A handwritten signature in black ink, appearing to read 'Will B. Haase', with a horizontal line drawn underneath it.

William B. Haase
Acting Secretary

CHICAGO ACADEMY OF SCIENCES
General Operating Support Financial Report
Fiscal Year 1999
(7/1/98 – 1/22/99)

Donor Category	FY 1999 Goals	Gifts/Pledges Received	Cash Collected
Individuals (Includes Academy Council, Auxiliary Board, Civic Leadership Committee, and Staff Members)	\$125,000	\$47,531	\$47,531
Trustees/VIPs (Includes Former Trustees, Honorary Trustees, and Scientific Governors)	\$75,000	\$21,669	\$21,669
Foundations	\$290,000	\$312,250	\$262,250
Corporations	\$112,000	\$28,150	\$53,150
TOTAL GIFTS	\$602,000	\$409,600	\$384,600

Major Corporate and Foundation Gifts

Gaylord and Dorothy Donnelley Foundation	\$100,000*
Polk Bros. Foundation	\$100,000
The John D. and Catherine T. MacArthur Foundation	\$ 30,000
Wm Wrigley Jr. Company Foundation	\$ 25,000**
Buchanan Family Foundation	\$ 20,000
Dr. Scholl Foundation	\$ 5,000
McMaster-Carr Supply Company	\$ 5,000
Chauncey and Marion Deering McCormick Foundation	\$ 5,000

* FY99 \$50,000 pledge payment remainder due

** FY98 pledge fulfillment received

THE CHICAGO ACADEMY OF SCIENCES
FACILITIES AND ADMINISTRATION COMMITTEE
MINUTES OF JANUARY 14, 1999 MEETING

Attendance

Chair Al Pick was the only board member attending. Colin Silvester, Bill Haase and Sheila McCaskill attended as well.

Agenda (see attached)

1. Base building contract

Colin presented his latest projection of the building contract costs and reported that McHugh is on schedule largely completed, with some punch list followup in process:

Al Pick asked about exterior lighting and whether there is power available for future expanded lighting. Colin said that there is.

2. Exhibit infrastructure contract with Turner

The 1.3 million contract was reported and discussed. Colin also mentioned that a change order is planned for infrastructure buildout for the Butterfly Cafe (the restaurant). In response to Al Pick's question, Bill Haase said that the furniture and fittings budget has a separate budget for restaurant equipment of approximately \$75,000.

3. Landscaping plan

- Colin reported that the Academy's plans are on schedule.
- He reported that the Park District has obtained approximately \$2,000,000 of State funds to rehabilitate the pond area.
- He also reported that the City is devoting \$2,500,000 for the Fullerton/Cannon Gateway, and we reviewed the artists' drawings.

4. Countdown 2000

Colin and Sheila walked Al through an overview of the planning process.

5. Admission pricing policy

Colin and Bill reviewed the proposed admission rates and their impact on our financial projections.

The Chair commented that this committee meeting times should be changed to 3:00 P.M. to facilitate better attendance. Future meeting dates are as follows:

Friday, April 16, 1999
Wednesday, June 16, 1999
Thursday, October 14, 1999



William B. Haase
Acting Secretary

CHICAGO ACADEMY OF SCIENCES

Minutes of the meeting of the Education and Exhibits Committee held on Thursday, January 14, 1999 at the Academy's offices at 2060 North Clark Street.

Trustees present: Lew Crampton (chair), Judy Istock, and Bill Elliott.

Staff present: Jennifer Blitz, Kevin Coffee, Bryn Reese, Colin Silvester, Jon Miller (part time).

1. Exhibit Status Report

Kevin Coffee reported that a new software contract for Environmental Central had been signed with a New York firm, Evolution Online Systems, Inc. Design Craftsmen's contract was being amended to include the fabrication of Children's Gallery.

2. Butterfly Haven status

Colin Silvester reported that all concrete had been poured in Butterfly Haven and Turner SPD were planning to hand over to DCI on February 1 for final installation of the exhibit. Completion scheduled for April 22.

3. New employees

Two new employees had joined the CAS exhibitions team, Margaret Goddard and Sasha Weinstein.

4. Education report

Jennifer Blitz advised that Science Scene had been radically restructured and the previous co-ordinator had resigned. Colin Silvester confirmed that responsibility for this popular program had been reassigned to the Nature unit of the Education Department.

5. CPS Math and Science project

Colin Silvester advised that the attached proposal had been developed by the Academy and submitted to the Chicago Public School system at their request. Following their internal review we are expecting some form of counter-proposal from CPS, hopefully before the end of January.

6. Countdown 2000

The Committee reviewed three draft plans which will be included in the Academy's 18 month master plan entitled Countdown 2000. They were: Exhibits, Museum programming, Educational services.

Respectfully submitted,
Colin R. Silvester
Acting Secretary

PROPOSAL
from
THE CHICAGO ACADEMY OF SCIENCES
to
THE CHICAGO PUBLIC SCHOOL SYSTEM

OBJECTIVE

1. To develop and produce Internet-based teaching programs in both science and mathematics which would support the CPS curriculum model for CPS science and math teachers. These programs will be based on the Academy's CAoS Club model.

DETAILS

- 160 science programs (30 minutes each) grades 1-8.
- 160 math programs (30 minutes each) covering grades 1-8.
- 50 science programs for high schools supporting CPS's five science courses.

OBJECTIVE

2. To develop and produce a web site for CPS students that provides educational reinforcement to students in support of the CPS model curriculum for both science and mathematics. This web site with its associated materials and projects will be based on the Academy's CAoS Clubhouse model and will be accessible by teachers and students on a 24-hour basis.

DETAILS

- 32 science activity units covering grades 1-8.
- 32 math activity units covering grades 1-8.
- 20 science activity units covering grades 9-12.

OBJECTIVE

3. Using the materials developed in Objectives 1 and 2 to deliver and maintain these educational services to CPS annually. This process would entail annual review and updating of the existing curriculum material and the development of new programs and materials.

PROGRAM SERVICE FEES

Based on our initial assessment of the costs of providing this complete program to CPS, the Academy has identified the following costs covering both the initial research and development activities and also the annual ongoing program delivery fees.

December 1998

RESEARCH AND DEVELOPMENT COSTS

Time frame	(January-August 1999)	
Total cost		\$1,600,000

ANNUAL PROGRAM FEE

Year 1 minimum - 8,000 teaching memberships @ \$125 per annum	\$1,000,000
---	-------------

All additional teaching memberships @ \$100 per membership

These program fees include both teacher membership password for CAoS Club and individual student membership passwords for that teacher's students for that academic year.

RESEARCH AND DEVELOPMENT COSTS

12/2/98

Detailed Analysis

<u>Staff</u>	25 science, math, & technology staff for 6 months @ 20K	=	<u>\$K</u> 500
	benefits @ 25% of salary	=	125
<u>Space</u>	additional 5,000 sq ft @ \$20/sp ft	=	100
<u>Supplies</u>	general		50
<u>Capital Equipment</u>	Central servers (2) LAN design and wiring T3 line 25 computers 5 printers 2 scanners Desks, chairs, and files Telephones and Faxes Software		350
<u>Program Validation</u>	External program consultation and validation		50
<u>Evaluation</u>	Pre and post evaluation studies to determine program impact		250
<u>Contingency</u>			175
Total R & D cost			<hr/> 1600

Exhibition Program Progress Report
to the
Education & Exhibition Committee of the Board of Trustees
January 13, 1999

Exhibition development, design and production for the six galleries within the Museum and on the surrounding grounds continues. The exhibition script - a working document that describes all aspects of the exhibition program - is currently 350 pages long. The script details how we present and interpret subject matter to our visitors - the foundation of the informal science learning experience.

Building & Grounds

The completion of work being done by McHugh Construction marks an important nodal point in the schedule for completion of the Museum. Following McHugh's departure from the project site, the mechanical, electrical and plumbing work not in their contract can proceed. The successful completion of that work will enable exhibition installation to proceed.

Turner Construction has been retained to complete M/E/P work in the butterfly greenhouse and adjacent gallery area. The concrete work for the planting beds and walkways is underway and will be completed on or about February 1, 1999. A comprehensive contract with Turner SPD for all remaining M/E/P work in the building is being finalized. For that contract, \$540,000 is being reallocated from the exhibit project budget.

The grounds around the building are being planted according to the Perkins & Will/ Carol JH Yetkin design for landscape. Much of this planting schedule is now in the ground.

Exhibit Fabrication

On August 10, a temporary production agreement was made with Design Craftsmen Inc. to begin engineering the built exhibit components. An agreement for production and installation of Butterfly Haven, City Science, Environmental Central, Water Lab and Wilderness Walk was made with Design Craftsmen on September 23.

An additional production agreement with Design Craftsmen is now being finalized for work related to Children's Gallery at a cost of \$319,000 as approved at the last regular Board meeting. With this addition, the amount of the DCI contract will be \$3.BM.

Engineering drawings for work related to Butterfly Haven are now being submitted for review and approval.

Butterfly Haven has been separated from all other fabrication work for completion by April 1999. All other fabrication work by DCI is scheduled for completion by August 30, 1999.

Exhibit Design

LH Skolnick Architecture + Design Partnership is essentially complete with their work to design three-dimensional components and the interior architecture of the exhibition galleries. With the initiation of the production agreement with Design Craftsmen, LHSA+DP will enter into coordination and supervisory position to ensure that the design intent is executed.

During the engineering phase of work, LHSA+DP will be working with the Academy to review and approve the working documents for the fabrication project.

In addition, LHSA+DP continues to participate in the review of interpretive graphic designs and media productions.

Graphic Design

Interpretive two-dimensional design in the exhibition galleries is being done by Carol Naughton + Associates. CN+A's client list includes the Brookfield Zoo, the Field Museum of Natural History, Adler Planetarium, as well as various corporate clients.

Interpretive graphics include label copy, photographs, illustrations, charts, etc. CN+A is working directly with the Academy to design 2-D displays that will be integrated into the 3-D displays designed by LHSA+DP and built by Design Craftsmen.

Work has been completed for Water Lab and is essentially complete for Butterfly Haven. Design work for City Science will be completed in February, followed by Wilderness Walk, Children's Gallery and the outdoor trail exhibits.

Carol Naughton + Associates has also been retained to design architectural graphics for the Museum building, working directly with Academy staff to develop a room ID system and general directional graphics. CN+A is also working on donor recognition graphics in the building lobby.

Copy Writing

The storyline of each exhibition is contained in the exhibit script. While much of this storyline is presented through models, interactive demonstrations and other visual 2-D and 3-D elements, the key content points of our exhibits are also communicated through the written word.

The first several drafts of this copy were written by exhibition staff. Final rewrites were done by Paul Rosenthal, a freelance writer located in New York City.

Final copy has been released to CN+A for Water Lab, City Science, Butterfly Haven and a large part of Wilderness Walk. Final revisions are now being made to text for Children's Gallery and the outdoor exhibits.

Film/Video

The long-term exhibitions will include twelve short-subject video productions as display components. These videos range from more lyrical films depicting the ecology of North Pond to narrative productions to explain the environmental consequences of electricity generation.

Videos are being co-produced by the Academy and Duncan Scott Productions, whose credits include the PBS series *Innovation*, as well as productions for WNET-TV, ABC, Greenpeace and the American Museum of Natural History. Principal photography for all

of the videos is in-progress and will continue through April 1999. Post-production will be completed by August 1999.

Software Development

The Butterfly Haven interpretive exhibits include the software-based *Electronic Field Guide to Butterflies*. The EFGB includes descriptions of 63 butterflies that are found in northern Illinois, including text/photo/audio descriptions of the larva and adult, food plants, habitat and geographic range.

The EFGB includes an overview of Lepidoptera anatomy, behavior and ecology; a section covering most-commonly asked questions about butterflies and moths; and a built-in web browser interface to other information resources. The production is being organized so that it can be reproduced on CD-ROM for distribution outside the Museum and so that it will run on MacOS and Windows 98 operating systems.

The EFGB is being co-produced with McAlpin Media Arts, an Oak Park firm.

Environmental Central

The initial EC program will deal with the environmental, social and economic ramifications of a drought affecting Chicago and the surrounding nine counties in Illinois, southern Wisconsin and northwestern Indiana.

Developmental work for EC is proceeding at the Academy with research on the range of inputs and outcomes that relate to this scenario. Major content topics include the technical examination of drought, impacts on agriculture, energy generation, industrial production, fishing, aquatic ecosystems, recreation, water pollution, domestic water use, and other areas of inquiry. As these issues are being researched, data and media assets are also being identified and collected.

Developmental work at the Academy is also focused on the structure and duration of the visitor experience in the forum - including the nature and sequence of program events, the role of the Academy facilitator(s), the length of time that should be considered for the experience, etc.

Software development has been contracted with Evolution Online Systems, a software and Internet development firm based in New York City. EOS is producing the multimedia database framework, the mathematical modeling programs, designing the user interface for software components, and producing video for use in the forum.

Sound

Audio presentations are being developed as part of the visitor experience in Wilderness Walk, City Science, Children's Gallery, the Lobby and in Butterfly Haven. This work is being produced by Wild Sanctuary Inc., Glen Ellen, California.

The principal of Wild Sanctuary is Bernie Krause, PhD, who has amassed some 30000 hours of 'in the wild' recording of animals and other sound. WSI has assembled a collection of digital recordings from this library, and made new recordings, that will be played in the galleries noted above.

These sounds will reside in digital form, be sampled from disk by software routines developed by WSI, and played over multi-channel speaker arrays in the public spaces. Organized in this way, the sound programs will never repeat and multi-channel effects, like the cries of a flock of geese flying across the sky, can be featured.

Audio production is complete, pending final review and approval. The completed recordings and supporting hardware will be delivered to the Nature Museum in the spring of 1999.

Science Advisory Committee

The Exhibition Science Advisory Committee was established in 1997 to provide a forum for technical advice on general thematic issues related to the informal science program.

The SAC has met three times - October 1997, April 1998 and again in October 1998, to hold wide-ranging conversations about the current exhibit plan, related educational programming, and the essential technical issues that are presented in the Nature Museum.

The SAC will continue to meet as necessary to discuss important issues in science as they relate to informal science education at the museum. A transcript of the April 1998 discussion was distributed to all Trustees prior to their retreat meeting in November 1998.

Budget Summary

With the revision to the budget as discussed at the previous Board meeting, the exhibit project budget is summarized as follows:

<i>Exhibit Area</i>	<i>cost</i>
Butterfly Haven	945,231
Water Lab	715,419
City Science	1,284,728
Wilderness Walk	1,615,841
North Pond & grounds	378,800
Children's Gallery	614,538
Main entry & lobby	323,358
Environmental Central	1,704,396
other design costs	278,900
sub-total	7,861,211
LHSA+DP additional costs	243,000
internal staff costs	300,000
contingency	94,000
total	8,498,211

January 1999

Quarterly Report for Education

Nature

BuGS Schools

Six school teams were selected to participate in the Butterfly Garden grant. The schools are all Chicago public schools located throughout the city. Twenty-four teachers attended the first of three workshops, where they experienced hand-on butterfly lessons that they can bring back to their classrooms.

Chicago Public Schools Off-Campus Program, Ecology Class

Twenty-four seventh and eight grader students from local elementary schools are participating in the Academy's after-school Ecology class. Students are learning the fundamentals of ecology, biology, botany, and zoology of the Illinois area, and are creating a model of their own nature museum. The students took advantage of the mild fall weather to learn water quality testing, and then practiced their skills at the North Pond.

Science Through Nature

Education staff are bringing the science of nature into 35 classrooms this semester, and have been requested to work as consultants in four schools on the south sides of the city and one in Chinatown.

In addition to their professional development training, the Nature staff have also served as science fair judges at over 20 schools in the last quarter.

Park Voyagers

Nature staff uncovered the *Mysteries of Nature* with students from the Chicago Park District's after-school program, Park Voyagers. Staff visited six parks for a week long adventure into animal mysteries, which included hands-on investigation of owl pellets, animal tracks, an animal's sense of smell, and hearing.

Science

The Education Department is very happy to have Stephen Bell heading the Science Unit. Stephen came to us from the Field Museum where he served as Coordinator of Public Programs. His experience with Chicago Public School teachers, the general public, and volunteers will help us move toward the opening of the Nature Museum and the continuation of our SOG! And growing list of other science programs.

Science on the Go! -

The SOG! Program is currently serving 24 schools, over 200 teachers and 6,000 students. The IMSaT program is expanding with new curricula being added regularly. Science is becoming so interesting for students in several schools that they are staying after school to participate in SOG's after school science clubs.

The Web

CAoS Club - www.caosclub.org/caosclub - CAoS Club, the Academy's online science program, is finishing another semester of live Internet broadcasts into classrooms. The CAoS Club site now contains over 200 hands-on science lessons as well as a variety of other resources for teaching integrated science. Live Internet broadcasts run throughout the school year on Tuesdays, Wednesdays, and Thursdays to support the online lesson plans. Students and teachers this fall have taken advantage of the interactive portion of CAoS Club broadcasts, where they can chat live with show hosts. One group of students in Zion enjoy chatting with our show hosts so much that we can barely keep up with their questions. It is this level of enthusiasm for learning science that makes a program like CAoS Club so exciting. By combining strong science education with an innovative delivery system, the Academy is able to bring science that is fun and interactive to classrooms across Illinois, via the Internet.

Online staff have been traveling the state training teachers on integrating CAoS Club into their classrooms. These workshops allow teachers to get first-hand experience with CAoS Club's live programming and give them an opportunity to explore the more than 150 lesson plans that comprise the site. Recent workshops were held in all corners of Illinois including Peoria, DeKalb, Carbondale, Rantoul, Edwardsville, Grayslake, and Joliet.

We have been promoting CAoS Club to teachers and administrators around the state. Staff members recently conducted presentations and exhibited CAoS Club at the Illinois Science Teachers Association Conference (Rosemont), the Illinois Computing Educators Conference (Addison), the Technology and Education Conference (Quincy), and the Illinois Education and Technology Conference (Springfield).

Thanks to subsidization by the Illinois State Board of Education, CAoS Club is now available to public school educators at 70% off of the regular standard membership price - that's \$66.00 for a teacher to access the service for an entire year. If you know of teachers who may be interested, have them check out the website at: www.caosclub.org/caosclub.

Illinois teachers aren't the only ones who get to take advantage of CAoS Club at a reduced rate. Thanks to funding from Pfizer Incorporated, the Academy is taking CAoS Club to twenty schools in Indiana. Academy staff recently traveled to Terre Haute, Indiana (site of one of Pfizer's major production facilities) to train teachers on using CAoS Club in their classrooms. With funding from Pfizer, the Academy is able to offer this service free to 20 schools in the Terre Haute area. The Academy looks forward to securing similar funding from other entities so that CAoS Club can be brought to schools in more communities.

Museum in the Classroom - The new year of the Museum in the Classroom grant has started off well. The Academy has been conducting and scheduling live Internet broadcasts for its partner classrooms. Broadcasts have included a "virtual" tour of the Academy's Collections conducted by Project Coordinator Tim Hayes and Collections Manager Mary Hennen. Students from around the state were able to pull up a webpage from their classrooms and view the tour live! Students were also able to ask questions about the collections as well as answer questions posed to them. Webcasts scheduled for the remainder of the winter will look at Illinois native habitats

including: Prairies (conducted by Doug Taron, Curator of Biology), Wetlands (conducted by Doug Widener, Manager of Online Learning), and Savanna (conducted by Jennifer Van Metre, Online Educator).

Throughout the months of January, February, and March, Museum Education staff will visit all 15 schools involved in the project. Visits will allow face to face contact between staff, students, and teachers. Visits will include activities and concepts directed by Museum Education staff and allow students to share their projects.

TILT - Teaching Integrated Learning through Technology - The TILT project, which pairs the Academy with four of our neighborhood schools: LaSalle Language Academy, Ocsar Mayer School, Alcott School, and Lincoln Park High School, is off to a quick start. The project focuses on integrated art, science, and technology education. The Academy serves as an external resource to our partner schools providing workshops for parents and teachers on helping students with science fair ideas, working with teachers to integrate technology into the classroom, and exploring computer-based art. The Academy is also working with each school to develop a web site for the project.

Midewin Prairie Educational Web Site - The Academy is developing a website about the Midewin National Tallgrass Prairie for Openlands Project. The web site was launched in September 1998 and includes an online exhibition of the photography of Terry Evans, as featured in the Art Institute exhibition "In Place of Prairie." The site also features a timeline, bibliography, information on public events and programs at Midewin. A special highlight of the site are 36 prairie-related activities developed for students in grades 1-12. The three curriculum categories for activities are: Science/Math, Social Studies, and Language Arts/Fine Arts. The activities were developed with the help of school teachers from Chicago area schools, who met with Academy staff and took a field trip to the Midewin National Tallgrass Prairie. The activities are scheduled for completion in early January and will be field tested by the teachers in their classrooms. More information is available on the Midewin web site: www.openlands.org/midewin.

Chicago Public Schools Off Campus Program, Online Class - The Chicago Public Schools Online Class continues this year, with 16 students from 13 different schools in the Chicago area. Students have been learning about computer technology and are in the process of finishing their first project, a personal web page. Future projects include creating a "virtual museum" web site that has subject areas similar to the exhibits to be found at the new Nature Museum. Students will complete several projects throughout the year, applying all they have learned. Students are graded and earn school credit for their participation in the class.

Hawthorne School Internet Club - The Academy has established an After School Internet Club at Hawthorne Scholastic Academy on Chicago's North Side. This ten-week program will introduce 20 sixth graders to publishing documents on the World Wide Web, who in turn will teach their classmates. The course will culminate in a presentation of student-developed web sites to parents, teachers, and fellow students.

CHICAGO ACADEMY OF SCIENCES

\$30 MILLION PROJECT \$20 MILLION CAMPAIGN GOAL

January 22, 1999

CAMPAIGN EXPENDITURES BY PURPOSE

	GOAL		AMOUNT COMMITTED	AMOUNT RECEIVED *	% OF GOAL COMMITTED	REMAINING TO RAISE
New Museum Project	\$28,250,000		\$25,123,706	\$10,044,495	89%	\$3,126,294
Endowment *	\$1,000,000		\$750,000	\$0	75%	\$250,000
Annual Fund (FY98 - FY2000)	\$2,000,000		\$912,496	\$808,573	46%	\$1,087,504
Total	\$31,250,000		\$26,786,202	\$10,853,068	86%	\$4,463,798

CAMPAIGN REVENUES BY SOURCE

	GOAL	NUMBER OF GIFTS	AMOUNT COMMITTED	AMOUNT RECEIVED *	% OF GOAL COMMITTED	REMAINING TO RAISE
Chicago Park District Bonds	\$10,000,000	1	\$10,000,000	\$5,451,520	100%	\$0
Academy Family ^	\$7,750,000	41	\$7,419,018	\$1,728,066	96%	\$330,982
Other Individuals	\$2,000,000	26	\$603,569	\$569,185	30%	\$1,396,431
Corporations & Their Foundations	\$3,000,000	19	\$2,270,500	\$963,000	76%	\$729,500
Foundations * ♦	\$5,500,000	16	\$3,701,214	\$1,259,545	67%	\$1,798,786
Government (non-CPD) ~	\$1,000,000	3	\$1,879,405	\$73,179	188%	(\$879,405)
Annual Fund (FY98 - FY2000) **	\$2,000,000	NA	\$912,496	\$808,573	46%	\$1,087,504
Total	\$31,250,000	106	\$26,786,202	\$10,853,068	86%	\$4,463,798

^ The Academy Family is defined here as Current, Former, and Honorary Trustees; Scientific Governors; Auxiliary Board; Academy Council; and CAS staff.

~ Assumes \$330,000 per year funding from State of Illinois for FY 99 through 2003

* The Chicago Community Trust has established a \$750,000 endowment which they will manage. The interest generated by this endowment will be contributed to the Academy on an annual basis after five years.

♦ \$1,500,000 challenge grant from The Kresge Foundation included in full.

** FY 98 Annual Fund Total Committed \$502,896

Development & Marketing Department
Quarterly Report
October, November, December, 1998

MARKETING

Marketing Communications

October, November, December 1998

Enhanced Nature Museum Corporate Identity Program.

The corporate identity program for The Nature Museum was enhanced to recognize the naming of the Museum for Peggy Notebaert. New museum letterhead, signage, banners and other marketing vehicles are in production to celebrate and build awareness of the Nature Museum name. Final approval is pending from the Chicago Park District.

Turner Advertising.

After presenting to the Development and Marketing Committee, Turner Advertising Agency was chosen. Ann Cuniff and Steve Turner will be responsible for developing and executing a launch campaign and strategy for the Academy's Peggy Notebaert Nature Museum. Kathleen Berg will manage the agency and work closely with them to ensure a seamless and impactful launch of the Museum. The agency has put together a contract, which includes the conception and creative execution for 3 campaigns to be developed for presentation to the D&M Task Force. The chosen campaign will be developed pro-bono (as indicated in the contract). Production and placement will be at cost. A meeting of the CAS Marketing team will be held at Turner's offices on January 5 to present our group plan and determine the course of events up until and through the museum opening.

Chicago Magazine Ad.

The March issue of Chicago Magazine will feature a "Great Museums" section, of which the Peggy Notebaert Nature Museum will be a part. Turner put together the ad pro-bono; we will pay for placement and production costs only.

Grand Opening Kid-Test.

Bill Nye has been verbally secured for our "Kid-Test the Museum" event to take place on October 9, 1999. The event includes a one-month contest promotion and a one-day kid test event. P.O.S. displays are being considered through the following outlets: Walgreens, Osco, Dr.'s offices, WGN TV/Chicago Tribune.

Banners.

We have received a proposal for design and execution of the new Museum banners from Deborah Schneider and paperwork from the Bureau of Electricity with regard to securing other areas in addition to the area surrounding the new museum (e.g. banners outside of Tiffany for the Butterfly Ball).

Development & Marketing Department
Marketing Communications, cont'd.

Volunteer Brochure.

A temporary Volunteer Brochure has been written and designed in-house for use through the Flower and Garden Show in March. A permanent version will be included in launch creative campaign.

Flower and Garden Show.

Collateral materials are being developed to coordinate with the Volunteer Brochure and the temporary Membership Brochure. The temporary materials will have the look of a cohesive campaign. A "Create a butterfly garden at home" takeaway brochure is being produced for show visitors.

Traffic Solution.

A community/good-will brochure mock-up has been developed that helps to illustrate the museum's concern and action oriented task to help provide the city with the means to get to the museum and not worry about parking, or add to the congestion of the area. The brochure will be presented to the Local Business Committee.

Membership Brochure.

Revisions to the temporary Membership Brochure have been received. Card fulfillment can be done in house.

CAoS Club.

The uniqueness and highlights of CAoS Club were analyzed for publication. An outline of the club's strong points and offerings will be promoted to the educational community. A marketing plan is being developed.

Museum Model.

A schedule is being developed for the model to travel to different corporate lobbies, to generate attention and interest in the project, as well as garner new members and cultivate donors. Marketing support materials (such as the newsletter, annual report, and temporary membership forms) will be available.

Holiday Tree Recycling.

Signage was complete, announcement postcards were sent to members. Due to the weather, the City cancelled the event. Cancellation notices were sent to members with free ice cream cone certificate as apology.

Development & Marketing Department
Marketing Communications, cont'd.

Public Affairs & Media

December 1998

Tracking the Press.

Beginning December 1, 1998, Lisa Noland, the new Public Affairs Director, began tracking media placements more systematically. A complete list of all press mentions of the Academy was developed as well as documentation of the number of impressions each placement made on the public (impressions being the number of people who would read, hear, or watch a particular story during the day).

In December, over 3 million people were exposed to the Academy through radio and print. Ten "hits," or placements, drove this high number. In particular, WGN and WBEZ radio interviews reached a large and diverse segment of Chicagoland listeners.

Radio Interviews.

On December 6, Bryn Reese and Lisa Noland attended a media conference hosted by *Chicago Wilderness*. L.Noland was interviewed by Mike Nowak of WGN-Radio about the exhibit in the Peggy Notebaert Nature Museum. B.Reese was interviewed by the Great Lakes Radio Consortium for a future story on the opening of the museum. This story will be positioned in March.

Jody Becker of WBEZ interviewed L.Noland about the benefits of tree recycling while The Academy's Christmas Tree Recycling Event was promoted.

Chicago Tribune.

A follow-up letter written by Paul Heltne appeared in Chicago Tribune Magazine. The letter followed Bill Mullen's article "Natural Resource," and recognized Lee H. Skolnick Design + Architecture's role in developing the exhibits of the new museum. A possible exclusive interview opportunity with Lee Skolnick is being developed, pending a confirmed Chicago visit from Lee. In addition, Bill Mullen's upcoming article on corporate donations to cultural institutions brought Tribune photographer Chuck Osgood to the Museum for a photoshoot with Peggy Notebaert. An early February print date is expected.

Development & Marketing Department
Public Affairs, cont'd.

Nature Articles.

Paul Heltne, Carol Yetken, and Steve Courtney were interviewed by the American Nurseyman Magazine about the landscape design and maintenance of the green space around the new Nature Museum. In another article devoted to an appreciation of the outdoors, The Star covered a workshop on Butterfield Creek, supported by the Chicago Academy of Sciences.

Front Page News.

Jim Boardman, the Nature Museum's exclusive caterer, was featured in a front page article in Suburban Life Citizen, in which he discussed the fabulous new Butterfly Café.

Tree Recycling Program.

The tree recycling event got off to a strong start with a front-page article in the Chicago Sun-Times, an article in the Chicago Tribune, and mentions in The North Loop News, and Inside; unfortunately, the event was cancelled by the City of Chicago due to the Blizzard of '99.

Other Important Mentions.

Executive Director of Museums in the Park Jacqueline Atkins was interviewed by the Chicago Daily Defender, and mentioned the Chicago Academy of Sciences. Continued notices of April's Butterfly Ball appeared in community papers as well.

Integrated Media Relations Plan.

An integrated media relations plan was developed for presentation to Peter Walker, General Manager of WGN Television. A December meeting with Harvey Plotnick, P.Walker, B.Reese, and L.Noland is scheduled for February 3.

Black History Month.

Event planning for Black History Month in February began in December. An early February media event is planned.

Task Force.

Community leaders are being cultivated to be members of a Task Force on Diversity, to develop minority audiences for the new museum. February 3 is the date of the first task force meeting.

Membership Program

December 1998

New "Members."

Marilyn Cahill joined the Academy as the Director of Membership in late November. The Academy new Manager of Special Events and Member Relations, Danielle Endrizzi, joined the Development and Marketing Team at the end of December.

A long-term membership recruitment plan was developed. The goal is to secure 5,000 new members by the year 2000. A long-range cultivation plan was created to include members in all upcoming event opportunities. Involving members as volunteers and docents was explored. Long-range strategies for member events and involvement at all levels of the Academy's programming were explored.

Collateral Materials.

A cohesive set of materials for members is being developed. A member card, membership application, and marketing brochure for the Flower and Garden Show were identified as priority pieces.

Science of Socializing.

The Auxiliary Board members discussed the launch year plans. The day of the week for the social event and the name of the social group were discussed.

Tree Recycling.

In December, the Tree Recycling event was to serve as a cultivation event to capture new members and build good will with current members who live in the neighborhood. The promotion also built momentum for the new Museum. A membership handout was developed, to be passed out at the Tree Recycling Event. In addition, members (and all tree recyclers) would receive a free coupon for a Ben & Jerry's ice cream cone. Members received a postcard notice of December's Christmas Tree Recycling Event, encouraging neighborhood residents to recycle their Christmas trees at the Academy site at Café Brauer. The event was unfortunately cancelled due to severe weather. However, it allowed us to send a good will card to members reminding them that next year the tree recycling event will take place at the new Peggy Notebaert Nature Museum.

Academy Council and Auxiliary Board.

D.Endrizzi assumed the role as liaison for the Auxiliary Board and M.Cahill took over as liaison for the Academy Council. Academy Council members met at the CAS offices and discussed the Academy Council members' involvement in opening day activities. The staff announced that all Academy Council members would be invited to the ICASL lectures in the spring and that this program could be used for membership recruitment.

Development & Marketing Department
Membership Program cont'd.

Nature Revisited.

The Chicago Architecture Foundation will host an exhibit on the Nature Museum called "Nature Revisited" from June through August. During the exhibit, a model of the Museum will be on display and a members' preview will be scheduled. Academy Council members will receive invitations to attend.

Chair Naming Opportunities.

The Auxiliary Board and the Academy Council have been approached with regard to our museum chair-naming program. The Auxiliary Board was excited about developing this program. Plans will be discussed at the January meeting with the larger Auxiliary Board group as well. The next business meeting will be held January 13, 1999 and the annual meeting will be held January 27, 1999.

Corporate Sponsorship

October – December 1998

Goal: \$725,000

Dawn Miller joined the Academy in October 1999, as the new Director of Corporate Sponsorship. A full calendar of events has been developed through October 2000 that launches brand awareness for the Academy & Museum beginning January '99. Key sponsorship opportunities have been identified. A roster of prospects is currently in development.

Finalized.

Sara Lee Corporation will sponsor the Grand Opening Weekend for \$250,000
Tentative overview

- Friday evening, Oct. 22 ribbon cutting/VIP dinner (ticketed) to finish endowment
- Saturday, Oct. 23 museum opens 7 a.m. for 24-hour public grand opening
- Sunday, Oct. 24 grand opening weekend concludes 6 p.m.

Pending.

Sponsorship proposals totaling \$120,000 are pending for programs/events related to:

- Butterfly Haven (Bank One 4-proposals \$100,000)
- 1999 ICASL lectures (Paine Webber \$20,000)

Development & Marketing Department
Corporate Sponsorship cont'd.

In Development.

The two largest sponsorships slated to maximize visibility of the Academy and the Peggy Notebaert Nature Museum next fall have received concept approval and are now in development. They are:

- "Kid Test the Nature Museum with Bill Nye Oct. 9" a metropolitan-wide promotion to select 100 children to "kid test" the Museum with science expert and television personality Bill Nye. Promotion begins August.
- "A Millenium Science Symposium" A 3-4 day symposium in January with an added public lecture that will emphasize the Academy's leading science education role. Dr. Heltne is contacting speakers. Details will be made available to the board as finalized. Current marketing strategy requires a high level of confidentiality surrounding speakers until the Museum opening.

DEVELOPMENT

Capital Campaign

Campaign Progress

As of January 22, 1999, \$26.8 million (includes \$1.5 million Kresge Challenge funds) has been raised against a goal of \$31.25 million; leaving \$4.5 million remaining to raise by March 1, 2000 to meet the Kresge Foundation Challenge. Significant commitments to the capital campaign this quarter (October 1, 1998 to date) are as follows:

Ameritech Corporation	\$37,500
Bank of America	50,000
Illinois Tool Works	10,000
Sara Lee Corporation	250,000
State of Illinois	1,650,000
Tiffany & Co.	100,000

Ameritech Corporation awarded the Academy a \$37,500 gift from the PGA Ameritech Senior Open.

Sara Lee Corporation will sponsor the Peggy Notebaert Nature Museum opening day in October 1999 with a \$250,000 gift.

Development & Marketing Department
Capital Campaign cont'd.

The State of Illinois has granted the Academy \$330,000 for FY 1999 as a result of the Illinois Public Museum Capital Grant Program. The initiative is expected to grant a like amount in each of four succeeding years.

Tiffany & Co. will sponsor the first annual Butterfly Ball at the level of \$100,000.

Campaign Volunteer Leadership Activity

A campaign meeting was held October 13, 1998 to discuss implications of the Kresge Challenge. The Board of Trustees and Academy Staff accepted the challenge with a letter to The Kresge Foundation on December 8, 1998. The Foundation has challenged us to meet our \$31.25 million *Campaign for the 21st Century* goal by March 1, 2000. \$1.5 million will be paid to the Academy by the end of March 2000 if the challenge is completely met by March 1, 2000.

Academy Family

Under the direction of David Voss, the C. Paul Johnson Family Charitable Foundation Challenge was met on December 22, 1998. Between October 1, 1997 and December 22, 1998, Academy Family Members contributed \$6,443,712 toward the *Campaign for the 21st Century* with 100% Board Participation. Every trustee has pledged or contributed a minimum of \$1,000 over and above commitments made prior to the onset of the challenge and all new trustees have made a pledge or gift of at least \$1,000.

The Academy Council and the Auxiliary Board have become actively engaged in the *Campaign for the 21st Century*. Both volunteer groups have selected naming opportunities and are developing fund raising programs to meet their individual goals.

A former and honorary trustee, Mr. Jeffrey R. Short, has undertaken a fund raising effort to raise \$100,000 from other former trustees to name the Dr. William J. Beecher Collections Laboratory in the Peggy Notebaert Nature Museum. Dr. Beecher was Director of the Academy for 24 years from 1958 until 1982. Mr. and Mrs. Short have contributed \$10,000 to spearhead the effort to honor Dr. Beecher.

Gala Committee

Gala Co-chairs Judy Istock and Cindy Lenhardt solicited Tiffany & Co. to sponsor the first annual Butterfly Ball. In October, Tiffany made the surprise announcement by delivering specially created crystal paperweights etched with butterflies – wrapped in the classic white satin-ribboned, turquoise boxes, of course – to each of 43 committee members and 25 key media representatives.

Tiffany & Co. created very special save-the-date Butterfly Ball cards that were mailed to approximately 3,000 invitees the first week in January. Michael Christ (Vice President

Development & Marketing Department
Capital Campaign cont'd.

Tiffany & Co.) will host a kick-off party for the Butterfly Ball Committee on February 27, 1999 at the store on Michigan Avenue. Trustees will be invited to the festive event.

The next full committee meeting will be held February 4 in the home of committee member Susan Stone. Individual committees are actively involved in assisting the Co-chairs with planning the evening.

Invitations to the gala will be mailed February 26, 1999. Trustees are advised to act promptly upon receipt of the invitation as no seats or tables are being reserved based on verbal commitments. Reservations are limited and initial projections indicate that sales will move very quickly.

Civic Leadership Committee

Harvey Plotnick (Chair) and Bryn Reese are in the process of meeting individually with committee members. Discussion centers on a campaign update and further involvement with the process as committee members. Meetings have taken place with James Kackley and Charles Schroeder. Meetings are currently scheduled with Edgar Jannotta, Peter Walker and Michael Birck. A select number of Civic Leadership Committee members will be asked to join the Civic Launch Committee.

Individual Gifts Committee

Committee members Richard Williams (Chair), Lewis Crampton, Bill Elliot, Hall Healy, Judy Istock, Al Pick, and Harvey Plotnick are actively working individually with their prospects. Members will report progress at a future meeting tentatively scheduled for late February.

A neighborhood program has been activated to create awareness, involvement and support of the Chicago Academy of Sciences within Lincoln Park and other selected Chicago neighborhoods. Private and small group tours of the museum generated from the Diversey Harbor Condo & Cooperation Association and word-of-mouth are taking place regularly. The next step in this process will be to hold private dinner parties in the homes of trustees or Academy friends for further cultivation of these identified individuals.

Local Business Committee

The Local Business Committee met December 11 and January 15 to solidify its fundraising project for its \$250,000 capital campaign goal. The committee has selected projects from the outdoor exhibits including the four "quotation" boulders and the three entrance signs to be located at the corner of Fullerton & Stockton and the north end of the park. A list of key prospects was approved and solicitation letters will be mailed mid-

Development & Marketing Department
Capital Campaign cont'd.

February. In addition, the committee's awareness campaign moved forward and a Lincoln Park Chamber "box lunch" at the Museum is under consideration for early summer. This will be the launch of a local business drive for \$1,000 contributions that would qualify the donor for a name listing on the "welcome sign" at the corner of Fullerton and Stockton. The next meeting is February 12.

Major Prospect Activity

Campaign for the 21st Century funding proposals have been submitted this quarter to Aon Foundation (preliminary), R.R. Donnelley, Morton International, Albert Pick, Jr. Fund (preliminary), and the Prudential Foundation.

Proposals from last quarter (July to September) that are still pending a decision are Chicago Community Trust, 3Com Corporation, John D. and Catherine T. MacArthur Foundation, Recycled Paper Greetings, and Sears.

Proposals are currently being developed for:

Aileen Andrew Foundation
BioLabs
Buchanan Family Foundation
Dean Foods
Dell Computer
Ermenegildo Zegna
Hewlett Packard
IBM
Keebler
Labline
Lucent
McDonalds
Metropolitan Life Foundation
Montgomery Ward
Quaker Oats
Successories
Tootsie Roll
United Airlines

Annual Fund Campaign

October - December 1998

As of December 31, 1998, \$401,770 has been raised toward the Annual Fund goal of \$602,000 for Fiscal Year 1999. Of that total, 84% (\$339,400) has been given by corporations and foundations.

Major gifts this quarter include:

Buchanan Family Foundation: \$20,000
Gaylord & Dorothy Donnelley Foundation: \$150,000
Chauncey & Marion Deering McCormick: \$5,000
Anonymous: \$5,000
Luther I. Replogle Foundation: notification of \$5,000 grant
Dr. Scholl Foundation: \$5,000

Proposals sent this quarter total \$145,000. Major proposals still pending include:

Abbott Laboratories Fund: \$50,000 GOS over 2yrs.
The Baxter Allegiance Foundation: \$50,000 GOS over 2yrs.
Lumpkin Foundation: \$10,000 *CAoS Club* support for expansion into Mattoon area.
Prudential Foundation: \$500,000 classroom naming and \$20,000 Science Scene support.

**The Chicago Academy of Sciences
Research and Symposium Committee
Minutes
January 20, 1999**

Present were: Lew Crampton, chair pro tem; William Elliott, Paul Heltne, Colin Silvester, Jon Miller, Doug Taron, and Richard Mariner

1.
 - A. Jon Miller reported on his affiliation with Northwestern's School of Medicine and Medill School of Journalism. He will be a tenured professor in the Department of Cell Biology; the Academy will buy 20% of his time from Northwestern in an arrangement similar to that with Northern Illinois.
 - B. Miller described spring lectures series on biomedical topics hosted by Medell at the University Club for science journalists..
 - C. Miller reported on the spring Academy lecture series beginning February 18 and running through June.
 - D. A book resulting from the ICASL symposium "Sputnik at 40" is being submitted to Harvard.
 - E. Miller described his proposal submitted to NSF and another being developed with NASA.
 - F. Mr. Crampton encouraged Miller and other staff to consider ways of building up five nodes of integration between ICASL and the rest of the organization: 1) Funding that would help supplement Academy operating budgets; 2) Showing how subjects of research fit seamlessly with Academy's mission; 3) Integration of programming in and around the new facility; 4) Collaboration with other institutions on work related to our missions; 5) A communications strategy which would position the Academy more effectively with potential donors and key stakeholders.
2. Dr. Heltne briefly discussed the importance of collections stewardship and the necessity of up-to-date policy for good care. He noted that Collections Policy is one of the elements of review in the Accreditation assessment. Doug Taron described two areas of policy review: database management and updating procedures of care and conservation. The staff will present a revision of collections procedures for review by the committee in late February or early March.
3. Dr. Heltne described early staff discussions regarding the functions and membership of a high level Science Advisory Committee for the Academy.
4. Richard Mariner described the cross-disciplinary nature of the Nature Polis and Ethics Project. A report of the project published as a supplement in the Hastings Center Report was distributed. He will explore the possibility of connecting the work of NPE to a Humanities Festival program. Mariner then described his Chicago Wilderness funded work ("Developing a Multicultural Agenda for CW" with Elizabeth Babcock) and his work with EPA on urban sprawl and other issues related to the environmental programs of the Nature Museum and our educational activities.
5. Dr. Heltne described opening events relating to science. On October 22, the Academy will invite Jane Goodall to be the dedicatory speaker. On October 25, 26, 27, or 28, Rita Colwell, Director of NSF will be invited address an audience of scientists and science writers on policy issues in research as we move into the next millennium.

**Collections and Research Dept
Quarterly Report, Oct-Dec 1998**

Collections/Archives:

1. Visited property at 7253 S. Merrill to ascertain possible Academy activity at site.
2. Participated in the Education dept program 'Public Science' giving collections tours, visiting the school to lecture, visiting Springbrook Nature Center & arranging upcoming collections tours.
3. In conjunction with Trinley Pictures, filmed segment on the importance of Natural History Collections to be marketed and available for PBS stations.
4. Continued to process loans and all requests for information (phone, letter & E-mail) relating the archives, collections & research departments.
5. Continued monitoring of the collections, including routine fumigation, spot checks of cabinets etc.

Information/Loan Requests:

Request Totals - Collns/ Archives = 23, Research = 21

Loans of newspaper scrapbooks to the Adler Planetarium.

Visitors to the collections & archives included; Tom Anton (herps), Tom Trinley (general), and Fay Franklin (Ridgeway photographs).

Research:

1. Continued work with the peregrine restoration program including, retrieval of injured birds, monitoring peregrine nestings, recording miscellaneous sightings, answering information requests and working with building managers.
2. Recorded interview for the "Vantage Point" radio program (FM 101.9) on the Academy's peregrine and bluebird research to be aired in March 1999.
3. Continued work on the web sites for the peregrine program, Illinois Bluebird Project, and the Illinois Ornithological Society.
4. Continued work as a member of the University of Chicago's Institutional Animal Care and Use Committee including semiannual tour of animal housing facilities.
5. Accepted position as Board Member for the Chicago Audubon Society.

Programs/Tours:

Gave collections tours (including online virtual tour with the educ dept.) for the following groups; Academy education programs (Online Learning, Gifted Ecology Course), and nonaffiliated schools.

Gave outside lectures on peregrines, general bird talks, and red-tailed hawks to the Chicago Youth Center, Prairie Woods Audubon Society, Riverside Brownie Troop, and Faith Christian Reform Cadets.

Publications/News:

1. The paper 'Eastern Bluebird Productivity, Nest Site Selection, and Population Dispersal at Three DuPage County, Illinois Study Sites', was published in the journal *Meadowlark* Vol 7 No 3.

**THE CHICAGO ACADEMY OF SCIENCES
PROJECT PLAN COMPARISON
(\$ Millions)**

<u>SEPTEMBER 97 VERSION</u>		<u>OCTOBER 98 VERSION</u>	
<u>Project Costs</u>	<u>Fundraising</u>	<u>Project Costs</u>	<u>Fundraising</u>
Building	\$ 14.3 CPD Bonds \$10.0	Building	\$15.2 CPD Bonds \$10.0
Exhibits	8.0 CAS Family 2.0	Exhibits	8.5 CAS Family 7.75
F & F	0.8 Individuals 3.0	F & F	0.8 Individuals 2.0
Endowment	1.0 Corporations 4.5	Endowment	1.0 Corporations 3.0
Campaign	3.0 Foundations 5.5	Campaign	3.0 Foundations 5.5
Contingency	0.3 Government 3.0	Contingency	0.3 Government 1.0
Annual Fund	2.0 Annual Fund 2.0	Annual Fund	2.0 Annual Fund 2.0
Bond repay	2.4	Bond repay	2.4
TOTALS	31.8 30.0	33.2	31.25
<u>Comparison : Sept 97 plan</u>		<u>versus</u>	
		<u>Oct 98 plan</u>	
Total project cost	(\$ 31.8)	Total project cost	(\$ 33.20)
Total fundraising	30.0	Total fundraising	31.25
Balance	(\$ 1.8)	Balance	(\$ 1.95)

Proposed Guidelines

Chicago Academy of Sciences
STEWARDSHIP GUIDELINES FOR TRUSTEES
Issued by the Nominating Committee of the Board of Trustees

Members of the Board of Trustees of the Chicago Academy of Sciences, as individual stewards of the Academy, are requested to commit to these fundamental responsibilities:

Ethical Responsibility

Exercise the role of Trustee to insure that the economic, legal and moral health of the Academy is maintained. Communicate and carry out the mission, goals, programs and needs of the Academy with commitment and dedication.

Trustee Participation

Attend regularly scheduled meetings of the Board of Trustees. Board Meetings are held quarterly on the last Tuesday of October, January, April and June.

Participate in at least one standing Board Committee which include Finance and Audit, Research and Symposia, Development and Marketing, Education and Exhibits, Facilities and Administration, By-Laws and Legal, and Nominating.

Recommend names of potential Trustee prospects, who are capable to fulfill the responsibilities of Trusteeship, to the attention of the Chair of the Nominating Committee. Counsel with the Chair before approaching a prospect about Trusteeship.

Fiscal and Legal Responsibility

Approve and monitor the Academy budget, and take an appropriate role in budget planning and the fund raising to meet it. Approve all policies and programs and oversee the implementation of policies and programs.

Philanthropic Responsibility

Contribute a minimum of \$1,500 each fiscal year to the Annual Fund. Make a significant capital or endowment gift over and above the annual contribution. Identify and involve prospective donors, volunteers and leaders in the Academy. Purchase tickets to Academy fundraising events. Encourage associates and friends to do the same.

THE CHICAGO ACADEMY OF SCIENCES

MEMORANDUM

Date : January 25 1999

To : Distribution

From : Colin Silvester

THE PEGGY NOTEBAERT NATURE MUSEUM

Admission Pricing Policy

Projected Annual Total Attendance

Adults	140,000
Children/Students/Seniors	110,000

Total	250,000
	=====

Paying general admissions

Adults	100,000
Children (3-17)	40,000
Seniors (62+)	15,000
Students	10,000

Total - paying admissions	165,000
	=====

Non paying general admissions

Adults (free day, members, VIP's etc.)	40,000
Children/ Students (free day, school groups)	40,000
Seniors (free day, members)	5,000

Total - non-paying admissions	85,000
	=====

Admission prices

General admission

Adult	\$6
Senior	4
Child/Student	3
Member	0

Special Exhibitions

Adult	\$3
Child/Student/Senior	3
Member	3

Note : Members will receive the following number of free passes to special exhibitions each year which can be used for any special exhibition within the period of their membership:

Individual members	2
Family members	4

Revenue projections

General admission

Adult	\$6 X 100,000	= \$ 600,000
Seniors	4 X 15,000	60,000
Children/Students	3 X 50,000	= 150,000

Special exhibitions

Adult/Child/Student/Senior	
\$3 X 75,000(*)	= 225,000

Total projected annual visitor admission revenue	\$1,035,000
---	--------------------

Note : (*) Estimated as follows :

All visitors pay for entrance to special exhibitions - 250,000
Assume 40% of visitors decline special exhibiton (100,000)
Assume special exhibitions open only 50% of year (75,000)

Net paying visitors to special exhibitions 75,000

Complimentary general admission

- * **Employees (with ID) of other Museum-in-the-Park institutions**
- * **Employees & Commissioners (with ID) of the Chicago Park District**
- * **Members of sister ASTC & AAM institutions**
- * **Holders of Chicago Library "Check It Out" museum passes**

Colin Silvester

CHICAGO ACADEMY OF SCIENCES

January 20, 1999

To: Board of Trustees

Board Meeting Materials for January 26, 1999

Enclosed please find:

1. Proposed agenda
2. Minutes of October meeting
3. Report and Comments on Financial Statements - 6 months ended 12/31/98
4. Resumes of three candidates for Board positions
5. Proposed Stewardship Guidelines for Trustees
6. Letter from Brent Manning regarding Illinois Public Museum Capital Grant Program
7. Hastings Center Report Special Supplement with article by Dr. Paul Heltne
8. Copy of article on Bluebirds co-authored by staff member Mary Hennen and ex-staff member Vicki Byre
9. Copies of recent articles in Crains' Chicago Business regarding Museum funding and admission policies.

Preliminary Agenda
THE CHICAGO ACADEMY OF SCIENCES
QUARTERLY BOARD MEETING
PEGGY NOTEBAERT NATURE MUSEUM
THIRD FLOOR CONFERENCE ROOM
JANUARY 26, 1999
NOON

1. Call to order - Mr. Voss (Noon)
2. Comments of the Chair - Mr. Voss
Resignations
Appointments
3. Report of the Secretary - Mr. Plotnick (5 min)
ACTION ITEM: Be it resolved that the Board of Trustees approves the minutes of the meeting of October 27, 1998, as circulated
4. Management Report - Dr. Heltne, Mr. Silvester (15 min)
Accreditation - Dr. Heltne (5 min)
Operating Plans - Mr. Silvester (10 min)
5. Report of the Nominating Committee - Mr. Pick (10 min)
ACTION ITEM: Be it resolved that the Board of Trustees appoints Paula Trienens, Robert Cumming, and Alejandro Silva as Trustees until the next Annual Meeting of the Board.

ACTION ITEM: Be it resolved that the Board adopts the 'Stewardship Guidelines for Trustees' as proposed.
6. Report of the Finance Committee - Mr. Benson (10 min)
7. Report of the Facilities and Administration Committee - Mr. Pick (15 min)
8. Report of the Education and Exhibits Committee - Mr. Crampton (15 min)
9. Report of the Development and Marketing Committee - Mr. Healy (20 min)
 - a. Campaign Committee - Mrs. Notebaert
 - b. Butterfly Ball - Mrs. Istock
 - c. Annual fund - Mr. Healy

The Chicago Academy of Sciences
Quarterly Board Meeting
January 26, 1999, p. 2

- d. Kennicott Society - Mr. Crampton
- e. Membership - Ms. Reese
- f. Marketing and sponsorships - Ms. Reese

ACTION ITEM: Be it resolved that the Board of Trustees appoints a Launch Taskforce comprised of Lew Crampton, Peggy Notebaert, Hall Healy, and Harvey Plotnick and authorizes the Taskforce to provide interim guidance for the development of activities and budget for the program of Opening Events.

10. Report of the ByLaws and Legal Committee - Mr. Healy (10 min)
Information Item: Sample ethics statements which will be refined for Board action in April.
11. Report of the Research Committee - Dr. Heltne (10 min)
Information Item: Notification that collections policies are being reviewed and revised for Board action in April.
12. Other business
 - a. Upcoming events
 - Feb. 27, Tiffany Butterfly Ball Kickoff Event,
 - Feb. - June Academy of Sciences Lecture series
 - March - Chicago Flower and Garden Show - Navy Pier
 - April 30 - Butterfly Ball
 - June 22 - Architectural Foundation/CAS exhibit opening
 - b. Other
13. Executive session
14. Adjournment

CHICAGO ACADEMY OF SCIENCES

REPORT AND COMMENTS ON FINANCIAL STATEMENTS SIX MONTHS ENDED DECEMBER 31, 1998

EXECUTIVE SUMMARY - OPERATIONS

December operations were slightly better than the budgeted level, and as a consequence, we are maintaining operating results that are better than our budget for the six months ended December 31, 1998. These are highlighted below (dollars in thousands):

	<u>BUDGET</u>	<u>ACTUAL</u>	<u>POSITIVE VARIANCE</u>
Operating revenues	\$ 2,095	2,384	289
Operating expenses	<u>2,061</u>	<u>1,754</u>	<u>307</u>
Net operating revenues, including investment losses	34	630	596
Add back unbudgeted net investment gains	--	<187>	<187>
Net operating revenues, excluding investment gains	\$ <u>34</u>	<u>443</u>	<u>409</u>

We expect this positive variance to be reduced later in the year, as planned spending increases; however, we should be able to produce results that are as budgeted or slightly better.

INVESTMENTS

It is also noteworthy that our investment portfolio at December 31, 1998 exceeded \$2,500,000 and that we have recovered the losses in market value that had accumulated earlier in the fiscal year.

EXECUTIVE SUMMARY - ALL UNRESTRICTED FINANCIAL ACTIVITY

For the six months ended December 31, 1998, our various revenues, net of expense, were as follows (dollars in thousands):

	<u>BUDGET</u>	<u>ACTUAL</u>	<u>VARIANCE</u>
Operations	\$ 34	630	596
New museum startup	<236>	<118>	118
Campaign	<u>3,834</u>	<u>3,432</u>	<u><402></u>
<u>Total</u>	\$ <u>3,632</u>	<u>3,944</u>	<u>312</u>

Operations, as described above, are well ahead of plan. New museum startup expenses are less than planned because the October 22, 1999 opening date is later than was assumed when this year's budget was prepared. Net revenues for the campaign are behind plan.

CASH FLOWS

Our cash flows have been good, and we have managed within our plan. In fact, we have not yet borrowed on our bank line of credit to date and do not project any borrowing until later in the fiscal year.


EXPENSES

As commented earlier, total expenses for all areas (operations, new museum startup and campaign) are well within plan. While the comparison that follows is not conclusive because not all expenses are ratable throughout the year, it shows the spending, by department. The resultant percentage can be compared to the 50% benchmark at the midpoint of our fiscal year. (Dollars in Thousands)

<u>Department</u>	<u>Total 1999 Budget</u>	<u>Spent at December 31, 1998</u>	
		<u>Amount</u>	<u>Percent</u>
Education	\$ 1,260	521	41
Museum Operations	477	208	43
Exhibits	200	43	22
ICASL Research	730	282	38
Collections	50	24	48
Applied Research	100	46	46
Facilities	485	208	42
Facility Rentals	60	20	33
Special Events	100	--	--
Development and Marketing	1,090	369	33
Institutional Support	371	87	23
Administration	519	273	52
<u>TOTALS</u>	\$ <u>5,442</u>	<u>2,081</u>	<u>39%</u>

Spending is less than was budgeted although some of these categories will "catch up" with the budget later in the fiscal year. Some museum startup costs have been deferred to some degree as well.

The only expense area over budget is Administration, where the unbudgeted cost of the Board Retreat accounts for the overage.



William B. Haase
Vice President of Finance and Administration
December 18, 1998

THE CHICAGO ACADEMY OF SCIENCES

STATEMENT OF UNRESTRICTED FINANCIAL ACTIVITIES

SIX MONTHS ENDED DECEMBER 31, 1998

(Dollars in Thousands)

OPERATIONS	Month of December		Year to Date	
	Budget	Actual	Budget	Actual
<u>Revenues:</u>				
<u>Public Support</u>				
• Taxes - CPD	\$ 130	141	630	641
• State of Illinois Support	--	--	20	22
• Contributions	50	74	300	330
• Memberships	7	2	22	8
• Applied Research Grants	22	33	54	68
• Museum Program Grants	8	--	40	76
<u>TOTAL</u>	<u>217</u>	<u>250</u>	<u>1,066</u>	<u>1,145</u>
<u>Earned Income</u>				
• Education Contracts	160	93	660	702
• ICASL Research Contracts	60	37	330	298
• Special Events Sponsorships	--	--	--	--
• Dividends and Interest	5	3	30	45
• Investment Gains <Losses>	--	--	--	50
• Unrealized Gains <Losses>	--	133	--	137
• Other	1	--	9	7
<u>TOTAL</u>	<u>226</u>	<u>266</u>	<u>1,029</u>	<u>1,239</u>
<u>TOTAL REVENUES - OPERATIONS</u>	<u>443</u>	<u>516</u>	<u>2,095</u>	<u>2,384</u>
<u>Expenses:</u>				
<u>Program Services</u>				
• Education Programs	120	88	600	521
• Museum Operations	30	29	200	208
• ICASL Research	60	34	330	282
• Collections	5	4	25	24
• Applied Research	22	7	54	46
• Facilities	50	35	230	208
• Special Events	30	--	50	--
<u>TOTAL PROGRAM</u>	<u>317</u>	<u>197</u>	<u>1,489</u>	<u>1,289</u>
<u>Management and General Services</u>				
• Development and Marketing	40	28	228	160
• Institutional Support	19	5	94	32
• Administration	45	55	250	273
<u>TOTAL MGT. & GENERAL</u>	<u>104</u>	<u>88</u>	<u>572</u>	<u>465</u>
<u>TOTAL EXPENSES - OPERATIONS</u>	<u>421</u>	<u>285</u>	<u>2,061</u>	<u>1,754</u>
<u>NET REVENUES - OPERATIONS</u>	<u>\$ 22</u>	<u>231</u>	<u>34</u>	<u>630</u>

THE CHICAGO ACADEMY OF SCIENCES
STATEMENT OF UNRESTRICTED FINANCIAL ACTIVITIES
SIX MONTHS ENDED DECEMBER 31, 1998

(Dollars in Thousands)

	<u>Month of December</u>		<u>Year to Date</u>	
	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
<u>NEW MUSEUM START-UP</u>				
<u>Revenues:</u>				
State of Illinois Support	\$ --	--	--	--
Memberships	--	--	--	--
<u>TOTAL - START-UP REVENUES</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>
<u>Expenses:</u>				
• Exhibits	20	8	75	43
• Museum Operations	10	--	25	--
• Facilities	--	--	--	--
• Facility Rentals	5	4	21	20
• Development	25	--	25	--
• Institutional Support	15	9	90	55
<u>TOTAL - START-UP EXPENSES</u>	<u>75</u>	<u>21</u>	<u>236</u>	<u>118</u>
<u>NET REVENUES - START-UP</u>	<u>\$ <75></u>	<u><21></u>	<u><236></u>	<u><118></u>
<u>NEW MUSEUM CAMPAIGN</u>				
<u>Revenues:</u>				
• CPD Bond Fund	250	237	1,500	2,078
• Capital Campaign	500	97	2,600	1,558
• Butterfly Ball	--	5	--	5
<u>TOTAL REVENUES</u>	<u>750</u>	<u>339</u>	<u>4,100</u>	<u>3,641</u>
<u>Expenses:</u>				
• Development and Marketing	71	47	206	209
<u>NET REVENUES - NEW MUSEUM CONSTRUCTION</u>	<u>\$ 679</u>	<u>292</u>	<u>3,894</u>	<u>3,432</u>
<u>RECAPITULATION OF UNRESTRICTED NET REVENUES:</u>				
• OPERATIONS	22	231	34	630
• NEW MUSEUM START-UP	<75>	<21>	<236>	<118>
• NEW MUSEUM CAMPAIGN	679	292	3,894	3,432
<u>TOTAL NET REVENUES</u>	<u>\$ 626</u>	<u>502</u>	<u>3,692</u>	<u>3,944</u>

THE CHICAGO ACADEMY OF SCIENCES
STATEMENT OF CHANGES IN NET ASSETS
SIX MONTHS ENDED DECEMBER 31, 1998

(Dollars in Thousands)

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Combined Totals</u>
<u>REVENUES:</u>				
<u>OPERATIONS - PUBLIC SUPPORT:</u>				
• Taxes - CPD	\$ 641			641
• State of Illinois	22			22
• Contributions	330			330
• Memberships	8			8
• Applied Research Grants	68			68
• Museum Program Grants	<u>76</u>	<u> </u>	<u> </u>	<u>76</u>
<u>TOTAL</u>	<u>1,145</u>	<u> </u>	<u> </u>	<u>1,145</u>
<u>OPERATIONS - EARNED INCOME:</u>				
• Education Contracts	572			572
• ICASL Research Contracts	298			298
• Special Events Sponsorships	--			--
• Dividends and Interest	45			45
• Investment Gains <Losses>	50			50
• Unrealized Gains <Losses>	137			137
• Other	7			7
• Net Assets Released From Restrictions	<u>130</u>	<u><130></u>	<u> </u>	<u>--</u>
<u>TOTAL</u>	<u>1,239</u>	<u><130></u>	<u> </u>	<u>1,109</u>
<u>NEW MUSEUM START-UP</u>				
• State of Illinois	--			--
• Memberships	<u>--</u>	<u> </u>	<u> </u>	<u>--</u>
<u>TOTAL</u>	<u>--</u>	<u>--</u>	<u> </u>	<u>--</u>
<u>NEW MUSEUM CAMPAIGN</u>				
• CPD Bond Fund	2,078			2,078
• Capital Campaign	1,558			1,558
• Butterfly Ball	<u>5</u>	<u>--</u>	<u> </u>	<u>5</u>
<u>TOTAL</u>	<u>3,641</u>	<u>--</u>	<u> </u>	<u>3,641</u>
<u>TOTAL REVENUES</u>	6,025	<130>	--	5,895
<u>TOTAL EXPENSES</u>	<u>2,081</u>	<u> </u>	<u> </u>	<u>2,081</u>
<u>NET CHANGE IN NET ASSETS</u>	3,944	<130>		3,814
<u>NET ASSETS AT BEGINNING OF PERIOD</u>	<u>15,392</u>	<u>130</u>	<u>640</u>	<u>16,162</u>
<u>NET ASSETS AT END OF PERIOD</u>	\$ <u>19,336</u>	<u>--</u>	<u>640</u>	<u>19,976</u>

THE CHICAGO ACADEMY OF SCIENCES

STATEMENT OF FINANCIAL CONDITION

DECEMBER 31, 1998 AND NOVEMBER 30, 1998

(Dollars in Thousands)

	<u>DEC. 98</u>	<u>NOV. 98</u>
<u>ASSETS:</u>		
CASH	\$ 1,599	\$ 363
<u>ASSETS ON DEPOSIT WITH TRUSTEE:</u>		
CONSTRUCTION FUND	1,663	2,317
CAPITALIZED INTEREST FUND	104	127
<u>ACCOUNTS RECEIVABLE:</u>		
TAXES - CHICAGO PARK DISTRICT	1,128	1,042
REIMBURSEMENTS - CHICAGO PARK DISTRICT	1,854	1,841
ICASL CONTRACTS	108	75
EDUCATION GRANTS, CONTRACTS AND OTHERS	437	398
PLEDGES, NET OF DISCOUNTS, ETC.	6,112	7,326
ENDOWMENT PLEDGES, NET OF DISCOUNT	640	640
<u>TOTAL ACCOUNTS RECEIVABLE</u>	<u>10,279</u>	<u>11,322</u>
INVESTMENTS AT FAIR MARKET VALUE	2,545	2,410
GIFT SHOP INVENTORY	--	--
PREPAID EXPENSES	809	826
<u>CAPITALIZED COSTS OF PROPERTY AND EQUIPMENT, NET OF ACCUMULATED DEPRECIATION AND AMORTIZATION:</u>		
BUILDINGS AND LAND	1,769	1,776
EQUIPMENT AND FURNITURE	198	195
NEW MUSEUM - COST IN PROCESS	16,616	15,745
<u>TOTAL PROPERTY AND EQUIPMENT</u>	<u>18,583</u>	<u>17,716</u>
<u>TOTAL ASSETS</u>	<u>\$ 35,582</u>	<u>\$ 35,081</u>
<u>LIABILITIES AND NET ASSETS:</u>		
<u>LIABILITIES:</u>		
NOTES PAYABLE - LINE OF CREDIT	\$ --	\$ --
BONDS PAYABLE	14,735	14,735
ACCOUNTS PAYABLE AND ACCRUED LIABILITIES	848	841
DEFERRED REIMBURSEMENTS	--	--
DEFERRED COMPENSATION	23	24
<u>TOTAL LIABILITIES</u>	<u>15,606</u>	<u>15,600</u>
<u>NET ASSETS:</u>		
UNRESTRICTED	19,336	18,834
TEMPORARILY RESTRICTED	0	7
PERMANENTLY RESTRICTED	640	640
<u>TOTAL NET ASSETS</u>	<u>19,976</u>	<u>19,481</u>
<u>TOTAL LIABILITIES AND NET ASSETS</u>	<u>\$ 35,582</u>	<u>\$ 35,081</u>

THE CHICAGO ACADEMY OF SCIENCES

CAPITAL PROJECT - STATUS REPORT

SUMMARY OF ACTUAL AND PROJECTED EXPENDITURES

AS OF DECEMBER 31, 1998

(Dollars in millions)

<u>ITEM</u>	<u>PROJECTED TOTAL</u>	<u>INCURRED TO 12/31/98</u>	<u>ADDITIONAL TO BE INCURRED</u>
<u>BUILDING:</u>			
Construction	\$ 13.9	12.5	1.4
Professional Fees	1.2	1.2	0.0
Environmental	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>
	<u>15.2</u>	<u>13.8</u>	<u>1.4</u>
<u>EXHIBITS:</u>			
Master Plan	0.2	0.2	.0
Lee Skolnick et al	1.2	1.0	0.2
Fabrication	6.8	1.1	5.7
Internal Personnel	<u>0.3</u>	<u>0.2</u>	<u>0.1</u>
	<u>8.5</u>	<u>2.5</u>	<u>6.0</u>
<u>FURNITURE & FITTINGS:</u>			
	<u>.8</u>	<u>.0</u>	<u>0.8</u>
<u>SUBTOTAL</u>	<u>24.5</u>	<u>16.3</u>	<u>8.2</u>
<u>ENDOWMENT:</u>			
	1.0	0.7	0.3
<u>CAMPAIGN EXPENSES:</u>			
Kemper Lesnick	1.2	0.6	0.6
Alford Group	0.7	0.7	0.0
Other & Temp. Exhibit	0.6	0.0	0.6
Fund Raising Program	<u>0.5</u>	<u>.0</u>	<u>0.5</u>
<u>Total</u>	<u>3.0</u>	<u>1.3</u>	<u>1.7</u>
<u>CONTINGENCY:</u>			
	<u>0.3</u>	<u>.0</u>	<u>0.3</u>
<u>TOTAL PROJECT COST:</u>	\$ <u>28.8</u>	<u>18.3</u>	<u>10.5</u>
<u>ADDITIONAL CAMPAIGN NEEDS:</u>			
3 Yrs Annual Operating Contributions (1998/99/2000)	2.0	0.6	1.4
5 Yrs Bond Principal Repayments	<u>2.4</u>	<u>0.3</u>	<u>2.1</u>
<u>TOTAL CAMPAIGN TARGET</u>	\$ <u>33.2</u>	<u>19.2</u>	<u>14.0</u>

WBH
1/15/99

Resume - Paula Trienens

Chicago Symphony - Trustee
Field Museum Women's Board - former President
Know Your Chicago - University of Chicago former Chairman
Ravinia Woman's Board
Northwestern University Woman's Board funding member, former President
Newberry Library - F.O.G. Committee
Historical Society - Guild
Friday Club
Evanston Hospital Corporation - former Director
Village of Glencoe Economic Committee
Glencoe Garden Club - former President
Landmarks Preservation Council of Illinois - Director

ROBERT A. CUMMING

Managing Director, Corporate Recovery Services

Bob Cumming is the Managing Director of the Corporate Recovery Services practice in the Midwest and is located in the Chicago office of KPMG Peat Marwick LLP.

Mr. Cumming has had more than 24 years experience providing professional assistance concerning companies in financial distress or otherwise requiring restructuring assistance. He has worked on behalf of shareholders, management, boards of directors, creditors (both secured and unsecured), and government agencies in numerous financial restructuring and insolvency situations. During his professional career Mr. Cumming has focused on providing financial assessments, crisis management, restructuring advice, liquidation services, forensic investigations and the preparation of expert reports (including expert testimony in court).

Mr. Cumming is a member of the Canadian Institute of Chartered Accountants and is a partner of KPMG (Canada). He is permanently located in Chicago.

Representative Accomplishments

Restructuring Advice and Assistance:

- Major real estate investment and development company with operations in Canada, U.S.A. and Germany, having asset holdings valued in excess of \$500 million;
- Major men's and women's clothing chains with more than 250 retail outlets in Canada and the U.S.;
- Major Canadian fully integrated petroleum and gas producer;
- Air cargo company delivering cargo to U.S. and Canadian destinations;
- Aluminum door manufacturer with operations in Ontario and Arkansas;
- Aircraft parts manufacturer distributing to major North American aircraft producers.
- U.S. based international telecommunications company, long distance reseller, and provider of global network of switches and fiber-optic cable.

Liquidation Services:

- Acted as court appointed Liquidator of a regional trust company having a deposit base of approximately \$500 million and 3,000 loan and mortgage accounts;
 - completed detailed review and valuation of mortgage and loan portfolio
 - developed and completed marketing program for the sale of the asset portfolio
- Acted as agent for a secured lender and trustee in bankruptcy to complete the sale of the assets of a software developer having total liabilities of approximately \$50 million;
- Acted as receiver to take possession, develop a marketing plan and sell assets of major condominium project comprising in excess of 300 units;
- Acted as trustee in bankruptcy and sold three seafood product plants;
- Acted as receiver and liquidator for military vehicle parts distributor providing services to various governments around the world;

- Acted as receiver and liquidator of a plywood and lumber producing company, completing and selling inventory on hand, and overseeing the auction of production equipment

Financial Assessments:

- Prepared a financial review and valuation of a major aircraft manufacturer in support of a financing request;
- Prepared a financial analysis and viability review of a large potash producer for the shareholders;
- Conducted a major asset review and evaluation of loan and guarantee portfolio (in excess of \$1.0 billion) with a view to determining a disposition strategy;

Crisis Management:

- Managed the operations of a 300 unit luxury hotel for in excess of one year, while successfully completing extensive renovation and marketing programs for the hotel, leading to the sale of the hotel to a major chain;
- At the request of a government agency, was appointed to manage a regional trust company with more than 45,000 depositors. The management period extended for more than three years. The mandate included day-to-day management of the trust company, developing and implementing marketing and disposition programs for the company, asset management, all regulatory dealings and ultimate distribution of proceeds
- At the request of the major secured creditor, took possession of a major condominium project, completed a substantial capital expenditure program and sold units over an eighteen month period

Forensic Investigations:

- Completed a major investigation for a provincial securities commission relating to possible fraudulent transactions of a real estate developer having 22 projects in Canada and the Caribbean. This investigation included direct testimony under oath during court hearings;
- Completed an investigation to determine responsibility for liability for losses arising from the failure of a financial institution

Expert Reports:

- Completed a review, prepared an expert report and testified in court with respect to the propriety of the actions of a major secured lender in recovering its outstanding loans in an insolvency situation;
- Completed a review and prepared an expert report for a secured lender concerning the solvency of a company at the time of bank foreclosure;

International Assignments (Outside Canada and U.S.)

- In Germany: assisted in the organization and presentation of information meetings for creditors and investors of a multi-national real estate development organization;
- In the Bahamas: conducted an investigation resulting in the recovery of funds fraudulently obtained from investors; and
- In Korea: held meetings with government agencies, bankers, private enterprises and various professional advisors for the purpose of determining restructuring options and opportunities. This analysis led directly to the establishment of a Corporate Recovery Services practice by KPMG in Seoul, South Korea.

Background

- Partner KPMG (Canada)
- Senior Vice President and Director of KPMG, Inc.
- Founding member of The Insolvency Institute of Canada
- Established KPMG Corporate Recovery practices in Canada – Atlantic Region and Prairies Region

Education

Bachelor of Business Administration, York University

Certifications

Chartered Accountant, Canada
Certified Insolvency Practitioner
Licensed Trustee in Bankruptcy

Professional Associations

Insolvency Practitioners Association
The Insolvency Institute of Canada
Turnaround Management Association
American bankruptcy Institute
Canadian Insolvency Practitioners Association

EVANS FOOD PRODUCTS CO.

4118 SOUTH HALSTED ST. / CHICAGO, ILLINOIS 60609 / 773 • 254-7400 / FAX 773 • 254-7781

Alejandro Silva is a Mexican national, born in Nogales, Sonora. He is the son of Mrs. Alejandro Silva Hurtado (Margarita Platt de Silva) and the late Dr. Alejandro Silva Hurtado. Mr. Silva became a United States citizen in 1997. Both parents were well known members of the community of Nogales and his father was Mayor of the city of Nogales in 1982 and was honored as being "one of the best City Mayors in the country" by the President of Mexico in 1985.

Mr. Silva is President of Evans Food Products Co., Chicago, Illinois, having acquired Evans in 1985. Evans Foods also has joint ventures in Canada, Mexico, Colombia and the Philippines.

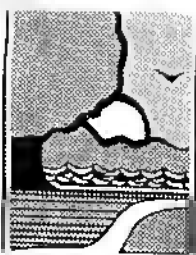
He entered the food business in Mexico in 1972 as Operations Manager and Assistant Plant Manager of KIR Alimentos, S.A. In 1979, Mr. Silva began a joint venture in Monterrey, Mexico, Distribuidora Mezquital Del Oro, S.A.

Mr. Silva received his BS in food technology from Instituto Tecnológico y De Estudios Superiores de Monterrey in Monterrey, N.L., Mexico. He received his MS in food engineering from the National College of Food Technology in Weybridge Surrey, England. Mr. Silva has received diplomas from the London School of Foreign Trade and from the College of Distributive Trades in advanced Meat Technology. He has attended continuing education courses at Instituto Panamericano de Alta Dirección de Empresa (IPADE) Advanced Management Program, Monterrey, Mexico; Harvard Business School (Owner/President Management Course), Cambridge, Massachusetts; Northwestern University; and the Kellogg School. Also, he has taken several courses in commodity trading at the Chicago Mercantile Exchange and Chicago Board of Trade.

Mr. Silva resides in the Chicagoland area, is married, has three children, and is 51 years old.

He is a member of the following organizations:

- Harvard Business Club, Chicago, Illinois
- United States Mexico Chamber of Commerce/Mid America Chapter
- Illinois Mexico Trade Council
- National Hispanic Alliance for Free Trade
- Chairman, Chicago/Mexico City Sister Cities Committee
- City of Chicago Chamber of Commerce
- Chicago Council of Foreign Relations
- Leadership in Alivio Medical Center
- Chicago Citizenship Assistance Council



ILLINOIS
DEPARTMENT OF
NATURAL RESOURCES

524 South Second Street, Springfield 62701-1787

Jim Edgar, Governor ● Brent Manning, Director

January 8, 1999

Paul G Heltne PhD
2060 North Clark St
Chicago IL 60614

Re: Project #: MU 99-008
Sponsor: Chicago Academy of Sciences
Museum: Peggy Notebaert Nature Museum
Award: \$330,000

Dear Dr. Heltne:

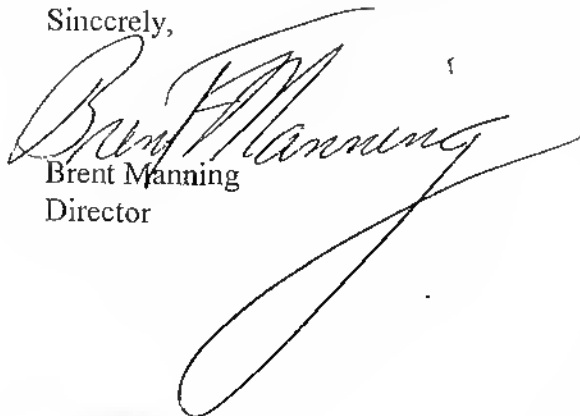
I am pleased to inform you that the above referenced project has been approved at the dollar amount indicated as part of the FY'99 Illinois Public Museum Capital Grant Program. The quality of your project to enhance educational opportunities and to provide exciting, innovative programs for students, tourists, and other museum visitors as we enter the next century is recognized by your selection in this year's competitive selection process.

Yours was one of 30 museum projects, representing \$10 million in funding assistance, approved by the Department for FY'99 public museum grant funds.

You will be receiving further correspondence shortly from the Illinois State Museum, and ultimately a formal grant agreement will need to be finalized with the DNR Division of Grant Administration.

Once again, congratulations on your successful application and thank you for your dedicated efforts to provide a broad range of educational opportunities for Illinois' citizens.

Sincerely,



Brent Manning
Director

BM/KF:11

Museum relic? Historical Society's \$17.09 question



Has Chicago lost its sense of history? Or has the Chicago Historical Society lost touch with its market?

Why, in a city with unprecedented civic pride and an insatiable appetite for reveling in its contributions to politics, architecture and business, does the 143-year-old institution draw fewer than 145,000 visitors per year—roughly the same number the Art Institute of Chicago and Museum of Science and Industry (MSI) attract in a single month?

There are more unsettling questions: Why is Historical Society attendance off more than 20% from the late 1980s? And why, on a per-visitor basis, are Chicago property taxes subsidizing the Historical Society at a rate three times greater than that of any other major museum?

These are concerns that come to mind after studying how the Chicago Park District spends the \$37.3 million in tax dollars it gives nine museums each year.

The subsidies are troubling in general because the museums refuse to offer city residents reduced or free admission, even though their property taxes support the museums' operations. But it's the Historical Society specifically that provides a diorama view

of how tax dollars are given to museums without much thought to how they serve the public.

A quick cost-benefit analysis—dividing the dollar value of the tax subsidy by the number of actual visitors—shows that the Historical Society is delivering the least bang for the buck by far.

For instance, the MSI, Field Museum and Art Institute each gets an annual subsidy of \$7.9 million but draws between 1.5 million and 1.8 million visitors per year. That means taxpayers underwrite each visit by \$4.40 to \$5.30—a figure on par with rallies for the city's major museums.

Then there's the Historical Society. It drew just 143,201 visitors in 1998 and received a taxpayer subsidy of more than \$2.4 million, or a staggering \$17.09 per visitor.

Historical Society President Douglas Greenberg says such a performance-based analysis is "irrelevant because it does not begin to capture the complexity of running a museum."

His argument: About 70% of his institution's \$10-million budget is spent not on visitor exhibits but on maintaining its collection of 20 million historic artifacts—items ranging from the bed in which Abraham Lincoln died to 40 million feet of WGN-TV/Channel 9 news footage.

"Our impact on the city is more important than can be measured by mere attendance," notes Mr. Greenberg, who joined the

Society in 1993. His prime mission: preserving and maintaining "the collective memory of Chicago."

To me, this sounds more like a case of amnesia. What good is keeping all these artifacts if no one sees them? And furthermore, most major museums spend heavily to maintain their collections.

That's not to say Mr. Greenberg doesn't want attendance to rise. He does. To that end, he says that a \$7-million, 500-car garage under construction near the museum's Lincoln Park complex (with the help of an additional \$2 million in taxpayer dollars) will make the Historical Society more appealing to visitors, as will an expanded "core exhibit" on Chicago history now in the planning stages.

In the meantime, Mr. Greenberg misses one key point: The exhibits being presented by the Historical Society are simply not connecting with the public.

One might argue that regional history just isn't as sexy as dinosaur bones or Monet haystacks. But that's not a good excuse. History museums in smaller cities like St. Paul, Minn., and St. Louis outdraw the Chicago Historical Society by a wide margin.

If the Historical Society is to justify its reason for being—and its big taxpayer subsidies—it must look beyond parking garages and excuses and just concede that it needs to become more relevant in the museum and entertainment marketplace.

Otherwise, it simply will become an aging relic, like the 20 million artifacts in its collection.

Lakefront museums must open their doors wider

January 4, 1999

<http://www.craainschic>

Museums have been good for Chicago. And Chicagoans have been very good to their museums. Taxes imposed on city property owners pay for interest and principal on \$72 million in bonds that the city's nine museums on Chicago Park District land have used to fund capital improvements. And there's more: In 1999, operating subsidies will total more than \$37 million.

The lucky museums are the Museum of Science and Industry, Field Museum, Art Institute of Chicago (each with a \$7.9-million operating subsidy), John G. Shedd Aquarium (\$5.7 million), Chicago Historical Society (\$2.4 million), Chicago Academy of Sciences (\$1.3 million), Adler Planetarium (\$2.4 million), DuSable Museum of African American History (\$868,358) and Mexican Fine Arts Center Museum (\$827,363).

Still, Chicago residents pay the same museum entry fees as non-city residents. And museums are hiking their entry fees aggressively. On Jan. 1, for instance, the Adler raised its adult fee 67% to \$5. Last year, the Art Institute, Shedd and Museum of Science and Industry also raised fees from 14% to 25%.

It's time once again to question the way museums are funded with public dollars and time to ask again if the museums can do more to offer free admission to Chicago residents.

Friends of the Parks has long advocated a wider geographic funding base than just city taxpayers. That is a worthy, but difficult, political sell. In the

meantime, the Civic Federation, a taxpayer research group, has a more immediate, workable solution: Lower admission prices for city residents and offer free days that include weekends, not just the weekday free days that limit participation among families with working parents.

The museums are not void of outreach efforts, such as free admission to school groups and free passes available at branches of the Chicago Public Library. But the museums are treading on treacherous political waters by enacting hefty fee increases in a period of low inflation.

Chicago's lakefront museums are an asset to the city and its tourist economy. But if they take money from Chicago property owners, they must also give back something — something more than they are giving now.

©1999 by Crain Communications Inc.

The Amateur and the Pro: Science at the Grass Roots

by Sheryl De Vore
Photos by Kathy Richland

Citizen – a native member of a nation, an inhabitant of city or town.

Scientist – an expert in the study of the systematic knowledge of the world.

From the biologist with a doctoral degree to the 16-year-old girl who is learning to band her first bird, a growing number of us are playing large and small roles in the development of conservation science.

In an unchained sense of the word, all humans are "scientists," gathering facts and performing experiments on the Earth. And in the young, tender world of ecosystem restoration, opportunities abound for new ideas. Indeed, some of yesterday's amateur scientists inspired some of the techniques used today to restore our native ecosystems.

Citizen scientists collect data that professional and volunteer stewards can use to help make good decisions about the management of conservation lands. Citizen science also offers us a chance to return to our human-ness as we immerse ourselves in prairies, woodlands and wetlands — counting Baltimore checkerspot, red-headed woodpeckers, blue-spotted salamanders, and adder's tongue ferns.

What follows are profiles of six Chicago Wilderness citizen scientists, each exploring, contributing, and having a wild time.



DENNIS DECOURCEY: Taking Flight—From Mentor to Mentor

In one of his earliest photos, Dennis DeCoursey is wearing diapers and feeding a baby mule. He now directs the Chicagoland Bird Observatory, where he still cares for young animals, but in another way.

Dennis and the volunteers he trains are banding birds and gathering data to help determine how to stop the decline of certain populations of birds. "This is where I can make the most effective contribution to the natural world," says Dennis. "I can also train people who can make contributions later on."

When Dennis was 11 years old, he met his first bird banding teacher, Zella Schultz, who led a bird walk he attended. "She took me under her wing for the next five years," says the Brookfield resident.

In high school, Dennis worked on conservation issues with the local Audubon Society. He also played oboe in the band. After graduation, he joined the US Navy where he played oboe for nearly five years.

But the call of the wild was too strong, and soon Dennis was working as a zookeeper and later as curator of birds at the Brookfield Zoo. In 1990,

Dennis, 51, and his wife, Leslie, founded the Chicagoland Bird Observatory.

Bird banding is used worldwide to study the movement, survival, and behavior of birds. Banders capture wild birds, then place uniquely numbered metal or plastic bands on their legs. Banders record where and when each bird is banded, how old it is, its sex, and other information, which then gets sent to a central site. When banded birds are later captured, released alive, and reported from somewhere else, scientists can reconstruct an individual bird's movement. For instance, banding has shown scientists that some species go south by one pathway and return north by another.

Last spring, Dennis worked at Goose Lake Prairie in Grundy County, IL, banding Henslow's sparrows, a declining grassland species. This research will help scientists understand what happens to Henslow's sparrow populations when grasslands are burned.

The Observatory, based in Brookfield, IL, is one of some 300 stations worldwide participating in a program called MAPS, Monitoring Avian Productivity and Survivorship. "With this program, as small as a 2 percent change in population can be recognized," says Dennis.

His youngest volunteer, Nellie Carlson, began banding birds at the Observatory when she was 11 years old. "When you have a little tiny creature in your hand and can find out all this information, it's amazing," says Nellie, now a 16-year-old high school sophomore who wants to study zoology. "Banding birds helps us know about nature and how it's changing."

For more information or to get involved, call (708) 387-9265 or e-mail chibirdobs@earthlink.net



JUNE KEIBLER:

Caretaker of Plants and People

Inside a blooming eastern prairie fringed orchid June Keibler finds what looks like a tiny, yellow, chicken drumstick. It is a pollinium, the pollen-bearing structure of this frilly flower, which she removes with a toothpick to transfer to another orchid in a process called hand-pollination.

"These orchids need human help," says June, a 54-year-old former physical therapist from Dundee, IL, who cares not only for humans but also for wild plants. Most of the populations of this federally threatened plant are too small to attract the hawk moths that pollinate this species. "Through the federal orchid recovery project, we hope to expand the existing populations as well as create new ones," June says. "To do that, we need a consistent census of where the orchids are and a consistent seed source. And we need volunteers to do the many hours of field work required to make this program work."

Fifteen years ago, in between working and caring for her children, June began volunteering to cut brush and collect seeds at workdays in McHenry and Kane counties.

She then learned about a draft recovery plan for the orchid written by Marlin Bowles of the Morton Arboretum for the US Fish & Wildlife Service. The plan lists projects for

scientists and volunteers so that the endangered plant can eventually be "delisted."

"The plan involves protecting sites and expanding the existing populations by restoring habitat," says June who coordinates volunteers on the project. "Like many prairie plants, the orchid needs sunny, open areas. So we are clearing brush and burning."

June works with 60 loyal volunteers, many active for at least five years. Every summer they pollinate the small populations of these plants, and every fall they collect and disperse a portion of the seed to carefully selected possible new sites. They also census populations and this year began the exacting task of collecting demographic information, including plant heights and numbers of blooms per plant.

"This project requires a team approach and every individual is important," says June. "If this works, it has great potential for demonstrating how we can save other endangered species." ❧



CHRIS KUEHL:

Family Values Mushroom

On a recent family trip, Chris and Ken Kuehl and their 13-year-old daughter, Anna, discovered an inter-

esting mushroom they could not identify. The lamp in their hotel room became a makeshift mushroom drying machine.

"Mushrooms are cool. They come in so many shapes and sizes and colors, and they have seasons. There are little tiny ones and great big ones. You can cut them in half and they change colors."

That's Mom talking!

Chris, 42, the volunteer steward at Green Lake Savanna near her house in Homewood, IL, is working with Field Museum botany curator Dr. Greg Mueller to catalogue northern Illinois fungi.

"We photograph them, collect samples, take measurements, make a spore print, dry them, box them up, and bring them to the Field Museum," says Chris. She also collects environmental information such as

what types of trees are growing with the fungus. Trees and certain types of fungus depend on each other for some of their nourishment.

Evidence exists that the mushroom population in Europe is declining. The same could be happening in North America. "But we have no baseline data," says Chris, "so that's what we're gathering."

Her daughter, Anna, may be one of the scientists who repeats this study 10 or 20 years from now. "I just like to go out and play in the woods, but Anna is really hooked, even on the toxicology aspect of fungus," says Chris.

Chris has also taken her knowledge to James Hart Junior High School in Homewood, where she works as a secretary. "I take students on a kind of 3-D Where's Waldo excursion to find mushrooms," she says. "We need to start them young. If they appreciate it, they'll want to save it." ❧



DOUG TARON: Butterfly Network

Doug Taron stood in a New England cranberry bog 20 years ago, watching hundreds of bog copper butterflies flitting in the rare habitat. "That changed the way I thought about butterflies," says Doug, who leads the Butterfly Monitoring Project of the Volunteer Stewardship Network. "All butterflies are not created equal. Some are tied to specific habitats."

That knowledge is important as land managers restore natural areas. "Recently we've had a challenge in Cook County to some of the techniques of habitat restoration," says Doug. "People wondered how animals were being affected by prescribed burns and removal of invasive plant species. They specifically worried about butterflies."

For example, the question was posed: if we weed out wild carrot, a non-native species that is eaten by native black swallowtail butterflies, will we lose the swallowtails? "The butterfly monitoring network has shown that if you remove wild carrot, you're not removing black swallowtail," says Doug. "Black swallowtails use

golden alexander and rattlesnake master," native prairie species.

"That information was gathered by our volunteer butterfly monitors," says Doug, whose interest in butterflies began when he was six years old. But while earning his PhD in biochemistry, Doug had little time for his hobby. When Doug moved to Chicago, he expected "there would be no nature here, just buildings, suburbs, and agriculture."

Near his home in Elgin, however, he discovered Bluff Spring Fen, and at the Fen he discovered the Baltimore checkerspot, a butterfly he hadn't seen since childhood. Doug began collecting data, and before long he was leading a first-of-its-kind butterfly monitoring program.

Recently Doug left his job as a biochemist at Amoco Corporation to become the curator of biology at the Peggy Notebaert Nature Museum of the Chicago Academy of Sciences. There he will make butterfly monitoring data available to scientists worldwide for research.

"Volunteer butterfly monitors have gathered a huge and remarkably sound body of data," says Doug, "and that can make a positive contribution." ❧



KEN MIERZWA: Building a Constituency of Volunteers

Ken Mierzwa listened to a scientist at a recent biology conference complaining that volunteers couldn't always be trusted to provide good research data.

Ken rose to speak.

Volunteers, in fact, had collected seven years of useful data on amphibians and reptiles in the Chicago Wilderness region, Ken said. "Once volunteers understand how to identify the flora and fauna and how the sample protocols work," he said, "they can do a fantastic job."

Indeed, though Ken is now a 43-year-old senior ecologist and associate at TAMS Consultants, Inc. in Chicago, for many years, he did science solely as a volunteer, collecting influential data on amphibians and reptiles in northern Illinois.

Ken learned about local flora and fauna when a neighbor biologist taught him how to identify frogs and salamanders. He then went on to operate a printing business, but he never forgot the joy of finding tiger salamanders and spring peepers in vernal ponds.

One dreary winter, Ken decided he needed some "green space." He went to Ryerson Woods in Lake County where he found a blue-spotted salamander beneath a log. He mentioned

his find to the staff, and within a few hours he had become a volunteer.

Ken immersed himself in the world of amateur herpetology, surveying populations at various preserves in Will, Lake, DuPage, and Cook Counties. "At some point, I realized this was more fun than what I was doing Monday through Friday," he says. So in 1990, he began working at TAMS, an engineering and design firm that, among other things, prepares environmental impact statements and assesses, develops, and oversees wetland mitigation projects.

"One of the reasons I chose this route was because I can help see that development is done in an intelligent and responsible way," says Ken. TAMS recently helped clinch the acquisition of the Clark and Pine East Nature Preserve west of the Indiana Dunes National Lakeshore. This 200-acre, state-dedicated nature preserve supports 18 species of amphibians and reptiles, a high number compared with other sites in the region.

Ken, also a serious nature photographer and marathon runner, continues to work with volunteers, collecting data on reptiles, amphibians, and mammals. With a current focus on if and why amphibian populations are declining, Ken leads two teams of amateur herpetologists and doctoral candidates in amassing distributional and abundance data. One team studies Spears Woods in Cook County forest preserves; the other gathers data in a remote 6,000-acre area of the Missouri Ozarks.

In addition to other published works, Ken's findings have been reported in the two chapters he wrote for the recent book, *Status and Conservation of Midwestern Amphibians* (University of Iowa Press, 1998).

These teams of professionals and amateurs will be vital to the conservation of Midwestern amphibians. "From a practical standpoint," Ken says, "the resources aren't there to gather the data we need to protect open space. The only way to do that is to build a constituency of volunteers." ■



RICH HYERCZYK: **In the Company of Lichens**

Rich Hyerczyk was wandering through a forest preserve 14 years ago when a friend asked him, half jokingly, if he went to the woods to find himself.

Rich has found himself—hanging out with some half plant/half fungus types. These days, when Rich is not working as a draftsman, he's usually hunched over some tree with a hand lens identifying lichens.

Rich says that, while he was content working as a draftsman, he also felt drawn to something intangible, the Earth perhaps. At age 32, he enrolled in a botany program at the Morton Arboretum where his first course was on lichens.

"I didn't even know what a lichen was," recalls the Chicago resident. "And I figured botanists knew everything there was to know about lichens."

His teacher, Dr. Gerould Wilhelm, convinced him the opposite was true about this curious organism in which fungus and algae live together, meeting each other's basic needs.

Since then, Rich has taught several courses on lichen identification, and has written papers on lichens that have been published in the *Transactions of the Illinois State Academy of*

Science and Erigenia, the journal of the Illinois Native Plant Society. He's also nearly halfway done with the major task of cataloging the lichens of the Cook County forest preserves.

"You can go on a hike in the woods and spend your whole day finding interesting things in one square meter," says Rich.

Like many volunteer scientists, Rich often works with volunteer stewards as they assess restoration needs on conservation lands.

"Jerry (Wilhelm) really encouraged us in the botany class," Rich says. "He said there's not enough time and resources for the professional to do this, but with their help, citizen scientists can do it. If I can do it, anyone can do it."

Wilhelm concurs, and goes a few steps further. "Yes, the data are valuable in their own right," he says, "but these extraordinary, gentle people are even more valuable. Some of the most important conservation scientists among us, both professional and volunteer, are the field people who have come to know the faces of the living things, who understand plant and animal responses to our behavior, and who help land managers make good judgments, day by day, and site by site. They are helping us become native parts of our native landscape." ■